АВТОМАТИЗИРОВАННАЯ СИСТЕМА «ЦИФРОВАЯ КНИГА НАРЯДОВ» НА БАЗЕ ПЛАТФОРМЫ «ABIE SYSTEM»

ОПИСАНИЕ ИНФОРМАЦИОННОГО ОБЕСПЕЧЕНИЯ

31682074.000000.001.П5.

Кемерово, 2020

АННОТАЦИЯ

Документ содержит описание состава и организации информационного обеспечения.

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Проверил				
Т.контр.				
Н.контр.				
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АВТОМАТИЗИРОВАННАЯ СИСТЕМА «ЦИФРОВАЯ КНИГА НАРЯДОВ» НА БАЗЕ ПЛАТФОРМЫ «ABIE SYSTEM»

ОПИСАНИЕ ИНФОРМАЦИОННОГО ОБЕСПЕЧЕНИЯ

Литера			Лист	Листов
М			2	**29**

ООО «АБИЕ-С»

ПЕРЕЧЕНЬ СОКРАЩЕНИЙ

1 БД — База данных.

2 ОС — Операционная система.

3 ПК — Персональный компьютер.

4 ПО — Программное обеспечение.

5 Система — Автоматизированная система «Цифровая книга нарядов» на базе платформы «Abie System».

6 СУБД — Система управления базами данных.

7 Angular — Фреймворк с открытым исходным кодом. Предназначен для разработки приложений.

8 DBeaver — Программа для работы с СУБД.

9 C# — Объектно-ориентированный язык программирования общего назначения.

10 Node JS — Программная платформа, основанная на движке V8 (компилирующем JavaScript в машинный код), превращающая JavaScript из узкоспециализированного языка в язык общего назначения.

11 PostgreSQL — свободная объектно-реляционная система управления базами данных.

12 TypeScript — Язык программирования, представленный Microsoft в 2012 году и позиционируемый как средство разработки веб-приложений, расширяющее возможности JavaScript.

13 Visual Studio — Среда разработки, созданная компанией Microsoft.

14 SDK — Набор инструментов и инструкций, которые разработчики используют для создания приложений.

15 Windows — семейство коммерческих операционных систем (ОС) корпорации Microsoft, ориентированных на применение графического интерфейса при управлении.

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СОДЕРЖАНИЕ

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1. ПО СИСТЕМЫ

1.1 Состав информационного обеспечения

1.1.1 Общее описание информационного обеспечения

Информационное обеспечение выполняет следующие функции:

- Приём и визуализация информации из СУБД PostgreSQL на ПК пользователя;

- Отправка данных в СУБД PostgreSQL;

- Обработка данных на веб-сервере.

Информационное обеспечение Системы включает в себя описание внутримашинного информационного обеспечения. Ведение внемашинного информационного обеспечения не предусмотрено.

Внутримашинное информационное обеспечение представлено в виде таблиц БД, обеспечивающих обработку и хранение данных.

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2. ОРГАНИЗАЦИЯ ИНФОРМАЦИОННОГО ОБЕСПЕЧЕНИЯ

2.1 Принципы организации информационного обеспечения системы

Для каждого экземпляра программы необходимо установить C# не ниже последних версий, предварительно подготовить файл конфигурации, заполнить таблицу в базе данных, содержащую пользовательские роли, и создать одного пользователя с правами администратора.

2.2 Обоснование выбора носителей данных и принципы распределения информации по носителям

Физические характеристики серверов и аппаратных средств см. в документе 31682074.000000.001.ИЗ(А) РУКОВОДСТВО АДМИНИСТРАТОРА.

2.3 Описание принятых видов и методов контроля в маршрутах обработки данных

Для проверки работоспособности ИС необходимо выполнить следующий порядок действий:

- Проверка работоспособности Системы при помощи мониторинга и фиксация времени возникновения ошибки.

- Проверка работоспособности при помощи LOG-файлов системы.

- Проверка работоспособности АРМ администратора.

- Запуск приложения в режиме debug и отладка выполняемых файлов исходного кода.

Для проверки работоспособности сервера СУБД необходимо выполнить следующий порядок действий:

- Проверка работоспособности системы при помощи мониторинга и фиксация времени возникновения ошибки.

- Проверка работоспособности при помощи LOG-файлов системы.

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Для проверки работоспособности сервера приложений необходимо выполнить следующий порядок действий:

- Проверить доступность серверов ИС ping, traceroute.

- Проверить возможность подключения для управления Linux(ssh), Windows(RDP).

- Проверить доступность URL, IP адресов сервиса в сети интернет.

- Проверить нагрузку на CPU Linux (htop,top), Windows(Диспетчер задач, монитор ресурсов).

- Проверить нагрузку на RAM Linux (htop,top), Windows(Диспетчер задач, монитор ресурсов).

- Проверить нагрузку на DISK I\O Linux (atop,iotop), Windows(Диспетчер задач, монитор ресурсов).

- Проверить наличие свободного места на дисках Linux(df -h), Windows (Проводник).

- Проверить доступность портов сервисов и сетевую связанность между сервисами\серверами ИС.

2.4   Описание решений по информационной совместимости

Информационная совместимость достигается за счет использования в качестве основы построения информационных и автоматизированных систем ПО СУБД PostgreSQL совместимых между собой версий.

2.5   Описание принятых видов и методов контроля в маршрутах обработки данных при создании внутримашинной и немашинной информационных баз с указанием требований, на соответствие которым проводят контроль

Контроль данных БД осуществляется с помощью встроенных в СУБД проверок ссылочной целостности, индексов, формирования ключей.

3. ОРГАНИЗАЦИЯ И СБОР ДАННЫХ

Первичное заполнение данных в БД поступает из внешних файлов.

Контроль целостности данных обеспечивается прикладным ПО и СУБД.

Прямой доступ пользователей к БД не предполагается.

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4. ОРГАНИЗАЦИЯ ВНУТРИМАШИННОЙ ИНФОРМАЦИОННОЙ БАЗЫ

4.1.1 Перечень таблиц

Информационная база представляет собой набор таблиц, предназначенных для приема и хранения данных, представленных в Приложении №1.

В файле .env содержатся настройки подключения к БД.

Параметры строки подключения к базе данных:

DB_HOST - IP адрес сервера базы данных.

DB_PORT - порт на сервере базы данных для подключения, по умолчанию для PostgreSQL (5432).

DB_DATABASE - наименование базы данных.

DB_USERID - логин пользователя для подключения к базе данных.

DB_PASSWORD - пароль пользователя для подключения к базе данных.

Для каждой версии Системы задаются свои реквизиты (пользователь/пароль).

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5. ОРГАНИЗАЦИЯ ВНЕМАШИННОЙ ИНФОРМАЦИОННОЙ БАЗЫ

Внемашинная информационная база, подразумевающая ведение бумажных журналов и иных записей, не подразумевается.

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ПРИЛОЖЕНИЕ №1

Схема данных	Назначение таблицы	Наименование таблицы	Наименование поля	Тип поля	Первичный ключ
accidents	История изменения данных о несчастных случаях на производстве	accident_histories	accident_id	uuid	
accidents		accident_histories	contractor_id	uuid	
accidents		accident_histories	deleted_date	timestamp without time zone	
accidents		accident_histories	deleted_user_id	text	
accidents		accident_histories	description	text	
accidents		accident_histories	holding_id	uuid	
accidents		accident_histories	id	uuid	PRIMARY KEY
accidents		accident_histories	inserted_date	timestamp without time zone	
accidents		accident_histories	inserted_user_id	text	
accidents		accident_histories	updated_date	timestamp without time zone	
accidents		accident_histories	updated_user_id	text	
accidents	Несчастные случаи на производстве	accidents	deleted_date	timestamp without time zone	
accidents		accidents	deleted_user_id	text	
accidents		accidents	holding_id	uuid	
accidents		accidents	id	uuid	PRIMARY KEY
accidents		accidents	inserted_date	timestamp without time zone	
accidents		accidents	inserted_user_id	text	
accidents		accidents	updated_date	timestamp without time zone	
accidents		accidents	updated_user_id	text	
accounts	Рефреш токены пользователей	refresh_tokens	client_type	text	
accounts		refresh_tokens	created_at	timestamp without time zone	
accounts		refresh_tokens	deleted_date	timestamp without time zone	
accounts		refresh_tokens	deleted_user_id	text	
accounts		refresh_tokens	expires_in	timestamp without time zone	
accounts		refresh_tokens	id	uuid	PRIMARY KEY
accounts		refresh_tokens	inserted_date	timestamp without time zone	
accounts		refresh_tokens	inserted_user_id	text	
accounts		refresh_tokens	token	uuid	
accounts		refresh_tokens	updated_date	timestamp without time zone	
accounts		refresh_tokens	updated_user_id	text	
accounts		refresh_tokens	user_id	text	
alarms	История изменений справочника тревог системы мониторинга куполообразования об отклонениях от нормативных показателей	dome_formation_alarm_histories	alarm_content	text	
alarms		dome_formation_alarm_histories	contractor_id	uuid	
alarms		dome_formation_alarm_histories	deleted_date	timestamp without time zone	
alarms		dome_formation_alarm_histories	deleted_user_id	text	
alarms		dome_formation_alarm_histories	dome_formation_alarm_id	uuid	
alarms		dome_formation_alarm_histories	id	uuid	PRIMARY KEY
alarms		dome_formation_alarm_histories	inserted_date	timestamp without time zone	
alarms		dome_formation_alarm_histories	inserted_user_id	text	
alarms		dome_formation_alarm_histories	updated_date	timestamp without time zone	
alarms		dome_formation_alarm_histories	updated_user_id	text	
alarms	Задания на устранение причины тревоги системы мониторинга куполообразования	dome_formation_alarm_work_types	deleted_date	timestamp without time zone	
alarms		dome_formation_alarm_work_types	deleted_user_id	text	
alarms		dome_formation_alarm_work_types	dome_formation_alarm_id	uuid	
alarms		dome_formation_alarm_work_types	id	uuid	PRIMARY KEY
alarms		dome_formation_alarm_work_types	inserted_date	timestamp without time zone	
alarms		dome_formation_alarm_work_types	inserted_user_id	text	
alarms		dome_formation_alarm_work_types	updated_date	timestamp without time zone	
alarms		dome_formation_alarm_work_types	updated_user_id	text	
alarms		dome_formation_alarm_work_types	work_type_id	uuid	
alarms	Справочник тревог системы мониторинга куполообразования об отклонениях от нормативных показателей	dome_formation_alarms	contractor_id	uuid	
alarms		dome_formation_alarms	deleted_date	timestamp without time zone	
alarms		dome_formation_alarms	deleted_user_id	text	
alarms		dome_formation_alarms	id	uuid	PRIMARY KEY
alarms		dome_formation_alarms	inserted_date	timestamp without time zone	
alarms		dome_formation_alarms	inserted_user_id	text	
alarms		dome_formation_alarms	updated_date	timestamp without time zone	
alarms		dome_formation_alarms	updated_user_id	text	
contractors	История контрагентов	contractor_histories	book_path	text	
contractors		contractor_histories	company_title	text	
contractors		contractor_histories	contractor_id	uuid	
contractors		contractor_histories	deleted_date	timestamp without time zone	

Схема данных	Назначение таблицы	Наименование таблицы	Наименование поля	Тип поля	Первичный ключ
contractors		contractor_histories	deleted_user_id	text	
contractors		contractor_histories	economic_activity_type	integer	
contractors		contractor_histories	external_id	text	
contractors		contractor_histories	holding_id	uuid	
contractors		contractor_histories	holding_title	text	
contractors		contractor_histories	id	uuid	PRIMARY KEY
contractors		contractor_histories	inserted_date	timestamp without time zone	
contractors		contractor_histories	inserted_user_id	text	
contractors		contractor_histories	is_active	boolean	
contractors		contractor_histories	is_seconded_company	boolean	
contractors		contractor_histories	updated_date	timestamp without time zone	
contractors		contractor_histories	updated_user_id	text	
contractors		contractor_settings	contractor_id	uuid	
contractors		contractor_settings	contractor_utc	integer	
contractors		contractor_settings	deleted_date	timestamp without time zone	
contractors		contractor_settings	deleted_user_id	text	
contractors		contractor_settings	has_change_task_issue_flag	boolean	
contractors		contractor_settings	has_excel_import_workers	boolean	
contractors		contractor_settings	has_import_workers	boolean	
contractors		contractor_settings	id	uuid	PRIMARY KEY
contractors		contractor_settings	inserted_date	timestamp without time zone	
contractors		contractor_settings	inserted_user_id	text	
contractors	Настроки контрагентов	contractor_settings	is_agreed_password_only	boolean	
contractors		contractor_settings	is_approve_password_only	boolean	
contractors		contractor_settings	is_med_check_up_integration_enable	boolean	
contractors		contractor_settings	med_check_up_time_after_begin_shift	integer	
contractors		contractor_settings	med_check_up_time_before_begin_shift	integer	
contractors		contractor_settings	send_email_approval	boolean	
contractors		contractor_settings	updated_date	timestamp without time zone	
contractors		contractor_settings	updated_user_id	text	
contractors		contractor_settings	work_refuse_reasons	jsonb	
contractors		contractor_settings	worker_edit_enabled	boolean	
contractors		contractors	deleted_date	timestamp without time zone	
contractors		contractors	deleted_user_id	text	
contractors		contractors	holding_id	uuid	
contractors	Контрагенты	contractors	id	uuid	PRIMARY KEY
contractors		contractors	inserted_date	timestamp without time zone	
contractors		contractors	inserted_user_id	text	
contractors		contractors	updated_date	timestamp without time zone	
contractors		contractors	updated_user_id	text	
contractors		holding_histories	deleted_date	timestamp without time zone	
contractors		holding_histories	deleted_user_id	text	
contractors		holding_histories	external_id	text	
contractors		holding_histories	holding_id	uuid	
contractors	История холдингов	holding_histories	id	uuid	PRIMARY KEY
contractors		holding_histories	inserted_date	timestamp without time zone	
contractors		holding_histories	inserted_user_id	text	
contractors		holding_histories	title	text	
contractors		holding_histories	updated_date	timestamp without time zone	
contractors		holding_histories	updated_user_id	text	
contractors		holdings	deleted_date	timestamp without time zone	
contractors		holdings	deleted_user_id	text	
contractors		holdings	id	uuid	PRIMARY KEY
contractors	Холдинги	holdings	inserted_date	timestamp without time zone	
contractors		holdings	inserted_user_id	text	
contractors		holdings	updated_date	timestamp without time zone	
contractors		holdings	updated_user_id	text	
emails		email_items	bcc	text	
emails		email_items	body	text	
emails		email_items	cc	text	
emails	Настроки почты	email_items	deleted_date	timestamp without time zone	
emails		email_items	deleted_user_id	text	
emails		email_items	failed_reason	text	

Схема данных	Назначение таблицы	Наименование таблицы	Наименование поля	Тип поля	Первичный ключ
emails		email_items	id	uuid	PRIMARY KEY
emails		email_items	inserted_date	timestamp without time zone	
emails		email_items	inserted_user_id	text	
emails		email_items	processed_date	timestamp with time zone	
emails		email_items	subject	text	
emails		email_items	to	text	
emails		email_items	updated_date	timestamp without time zone	
emails		email_items	updated_user_id	text	
equipments	История изменений переносного шахтного оборудования (ПШО)	equipment_histories	contractor_id	uuid	
equipments		equipment_histories	deleted_date	timestamp without time zone	
equipments		equipment_histories	deleted_user_id	text	
equipments		equipment_histories	equipment_id	uuid	
equipments		equipment_histories	id	uuid	PRIMARY KEY
equipments		equipment_histories	inserted_date	timestamp without time zone	
equipments		equipment_histories	inserted_user_id	text	
equipments		equipment_histories	title	text	
equipments		equipment_histories	updated_date	timestamp without time zone	
equipments		equipment_histories	updated_user_id	text	
equipments	Переносное шахтное оборудование (ПШО)	equipments	contractor_id	uuid	
equipments		equipments	deleted_date	timestamp without time zone	
equipments		equipments	deleted_user_id	text	
equipments		equipments	id	uuid	PRIMARY KEY
equipments		equipments	inserted_date	timestamp without time zone	
equipments		equipments	inserted_user_id	text	
equipments		equipments	updated_date	timestamp without time zone	
equipments		equipments	updated_user_id	text	
logs	Логирование действий пользователя/сотрудника	user_action_logs	action_user_id	text	
logs		user_action_logs	action_worker_id	uuid	
logs		user_action_logs	id	uuid	PRIMARY KEY
logs		user_action_logs	inserted_date	timestamp without time zone	
logs		user_action_logs	inserted_user_id	text	
logs		user_action_logs	log_operation_type	integer	
logs		user_action_logs	record_after_change	jsonb	
logs		user_action_logs	record_before_change	jsonb	
logs		user_action_logs	table_title	text	
measure_units	История изменений единиц измерения объема работ	measure_unit_histories	deleted_date	timestamp without time zone	
measure_units		measure_unit_histories	deleted_user_id	text	
measure_units		measure_unit_histories	full_title	text	
measure_units		measure_unit_histories	id	uuid	PRIMARY KEY
measure_units		measure_unit_histories	inserted_date	timestamp without time zone	
measure_units		measure_unit_histories	inserted_user_id	text	
measure_units		measure_unit_histories	measure_unit_id	uuid	
measure_units		measure_unit_histories	okei	text	
measure_units		measure_unit_histories	short_title	text	
measure_units		measure_unit_histories	updated_date	timestamp without time zone	
measure_units		measure_unit_histories	updated_user_id	text	
measure_units	Единицы измерения объема работ	measure_units	deleted_date	timestamp without time zone	
measure_units		measure_units	deleted_user_id	text	
measure_units		measure_units	id	uuid	PRIMARY KEY
measure_units		measure_units	inserted_date	timestamp without time zone	
measure_units		measure_units	inserted_user_id	text	
measure_units		measure_units	updated_date	timestamp without time zone	
measure_units		measure_units	updated_user_id	text	
modules	Модули приложения	app_modules	deleted_date	timestamp without time zone	
modules		app_modules	deleted_user_id	text	
modules		app_modules	id	uuid	PRIMARY KEY
modules		app_modules	inserted_date	timestamp without time zone	
modules		app_modules	inserted_user_id	text	
modules		app_modules	menu_item_title	text	
modules		app_modules	title	text	
modules		app_modules	updated_date	timestamp without time zone	
modules		app_modules	updated_user_id	text	
modules	Доступ пользователей к модулям	user_module_access	app_module_id	uuid	
modules		user_module_access	deleted_date	timestamp without time zone	

Схема данных	Назначение таблицы	Наименование таблицы	Наименование поля	Тип поля	Первичный ключ
modules		user_module_access	deleted_user_id	text	
modules		user_module_access	id	uuid	PRIMARY KEY
modules		user_module_access	inserted_date	timestamp without time zone	
modules		user_module_access	inserted_user_id	text	
modules		user_module_access	updated_date	timestamp without time zone	
modules		user_module_access	updated_user_id	text	
modules		user_module_access	user_id	text	
public		role_claims	claim_type	text	
public		role_claims	claim_value	text	
public	Клаймы ролей	role_claims	id	integer	PRIMARY KEY
public		role_claims	role_id	text	
public		roles	concurrency_stamp	text	
public	Роли пользователей	roles	id	text	PRIMARY KEY
public		roles	name	character varying	
public		roles	normalized_name	character varying	
public		user_claims	claim_type	text	
public		user_claims	claim_value	text	
public	Клаймы пользователей	user_claims	id	integer	PRIMARY KEY
public		user_claims	user_id	text	
public		user_logins	login_provider	text	PRIMARY KEY
public		user_logins	provider_display_name	text	
public	Логины пользователей	user_logins	provider_key	text	PRIMARY KEY
public		user_logins	user_id	text	
public	Роли пользователей	user_roles	role_id	text	PRIMARY KEY
public		user_roles	user_id	text	PRIMARY KEY
public		user_tokens	login_provider	text	PRIMARY KEY
public	Токены пользователей	user_tokens	name	text	PRIMARY KEY
public		user_tokens	user_id	text	PRIMARY KEY
public		user_tokens	value	text	
public		users	access_failed_count	integer	
public		users	card_code	text	
public		users	concurrency_stamp	text	
public		users	contractor_id	uuid	
public		users	deleted_date	timestamp without time zone	
public		users	deleted_user_id	text	
public		users	email	character varying	
public		users	email_confirmed	boolean	
public		users	employee_number	text	
public		users	energy_security_group	text	
public		users	full_name	text	
public		users	holding_id	uuid	
public		users	id	text	PRIMARY KEY
public		users	inserted_date	timestamp without time zone	
public	Пользователи	users	inserted_user_id	text	
public		users	lockout_enabled	boolean	
public		users	lockout_end	timestamp with time zone	
public		users	normalized_email	character varying	
public		users	normalized_user_name	character varying	
public		users	password_hash	text	
public		users	phone_number	text	
public		users	phone_number_confirmed	boolean	
public		users	profession_title	text	
public		users	security_stamp	text	
public		users	signature_confirm_password	text	
public		users	two_factor_enabled	boolean	
public		users	updated_date	timestamp without time zone	
public		users	updated_user_id	text	
public		users	user_name	character varying	
public		work_area_task_attention_view	danger_zone	integer	
public		work_area_task_attention_view	dome_formation_alarm	integer	
public	Представление предупреждений о наличии нарушений, тревог и т.п.	work_area_task_attention_view	dynamic_phenomena	integer	
public		work_area_task_attention_view	hse_violation	integer	
public		work_area_task_attention_view	vtb_violation	integer	
public		work_area_task_attention_view	work_area_id	uuid	

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public	Представление видов и детализаций выполняемых работ на рабочем участке	work_area_work_type_view	work_area_id	uuid	
public		work_area_work_type_view	work_area_work_type_history_id	uuid	
public		work_area_work_type_view	work_content	text	
public		work_area_work_type_view	work_item_content	text	
public		work_area_work_type_view	work_type_id	uuid	
public		work_area_work_type_view	work_type_item_id	uuid	
public		work_area_work_type_view	work_type_item_measure_unit_id	uuid	
public		work_area_work_type_view	work_type_measure_unit_id	uuid	
public	Представление технологических позиций рабочих мест на рабочем участке	work_area_workplace_tech_position_view	work_area_id	uuid	
public		work_area_workplace_tech_position_view	work_area_workplaces_id	uuid	
public		work_area_workplace_tech_position_view	workplace_history_id	uuid	
public		work_area_workplace_tech_position_view	workplace_id	uuid	
public		work_area_workplace_tech_position_view	workplace_tech_position_id	uuid	
public		work_area_workplace_tech_position_view	workplace_tech_position_title	text	
public		work_area_workplace_tech_position_view	workplace_title	text	
repair_types	История изменений видов ремонта	repair_type_histories	contractor_id	uuid	
repair_types		repair_type_histories	deleted_date	timestamp without time zone	
repair_types		repair_type_histories	deleted_user_id	text	
repair_types		repair_type_histories	description	text	
repair_types		repair_type_histories	id	uuid	PRIMARY KEY
repair_types		repair_type_histories	inserted_date	timestamp without time zone	
repair_types		repair_type_histories	inserted_user_id	text	
repair_types		repair_type_histories	repair_type_id	uuid	
repair_types		repair_type_histories	updated_date	timestamp without time zone	
repair_types		repair_type_histories	updated_user_id	text	
repair_types	Справочник видом ремонта	repair_types	contractor_id	uuid	
repair_types		repair_types	deleted_date	timestamp without time zone	
repair_types		repair_types	deleted_user_id	text	
repair_types		repair_types	id	uuid	PRIMARY KEY
repair_types		repair_types	inserted_date	timestamp without time zone	
repair_types		repair_types	inserted_user_id	text	
repair_types		repair_types	updated_date	timestamp without time zone	
repair_types		repair_types	updated_user_id	text	
schedules	Детализации графика смен ответственных сотрудников в наряде	responsible_person_shift_schedule_items	deleted_date	timestamp without time zone	
schedules		responsible_person_shift_schedule_items	deleted_user_id	text	
schedules		responsible_person_shift_schedule_items	employee_number	text	
schedules		responsible_person_shift_schedule_items	full_name	text	
schedules		responsible_person_shift_schedule_items	id	uuid	PRIMARY KEY
schedules		responsible_person_shift_schedule_items	inserted_date	timestamp without time zone	
schedules		responsible_person_shift_schedule_items	inserted_user_id	text	
schedules		responsible_person_shift_schedule_items	responsibility_type	integer	
schedules		responsible_person_shift_schedule_items	responsible_person_shift_schedule_id	uuid	
schedules		responsible_person_shift_schedule_items	shift_days	jsonb	
schedules		responsible_person_shift_schedule_items	updated_date	timestamp without time zone	
schedules		responsible_person_shift_schedule_items	updated_user_id	text	
schedules		responsible_person_shift_schedule_items	work_area_id	uuid	
schedules		responsible_person_shift_schedule_items	work_area_position	integer	
schedules		responsible_person_shift_schedule_items	work_area_title	text	
schedules		responsible_person_shift_schedule_items	worker_id	uuid	
schedules		responsible_person_shift_schedule_items	worker_position	integer	
schedules		responsible_person_shift_schedule_items	worker_profession	text	
schedules	Графики смен ответственных сотрудников в наряде	responsible_person_shift_schedules	contractor_id	uuid	
schedules		responsible_person_shift_schedules	deleted_date	timestamp without time zone	
schedules		responsible_person_shift_schedules	deleted_user_id	text	
schedules		responsible_person_shift_schedules	id	uuid	PRIMARY KEY
schedules		responsible_person_shift_schedules	inserted_date	timestamp without time zone	
schedules		responsible_person_shift_schedules	inserted_user_id	text	
schedules		responsible_person_shift_schedules	month	integer	
schedules		responsible_person_shift_schedules	updated_date	timestamp without time zone	
schedules		responsible_person_shift_schedules	updated_user_id	text	
schedules		responsible_person_shift_schedules	year	integer	
schedules	Детализации графиков смен рабочих участков	work_area_shift_schedule_items	deleted_date	timestamp without time zone	
schedules		work_area_shift_schedule_items	deleted_user_id	text	
schedules		work_area_shift_schedule_items	employee_number	text	

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schedules		work_area_shift_schedule_items	full_name	text	
schedules		work_area_shift_schedule_items	id	uuid	PRIMARY KEY
schedules		work_area_shift_schedule_items	inserted_date	timestamp without time zone	
schedules		work_area_shift_schedule_items	inserted_user_id	text	
schedules		work_area_shift_schedule_items	is_apprentice	boolean	
schedules		work_area_shift_schedule_items	is_mentor	boolean	
schedules		work_area_shift_schedule_items	is_trainee	boolean	
schedules		work_area_shift_schedule_items	is_vgk	boolean	
schedules		work_area_shift_schedule_items	shift_days	jsonb	
schedules		work_area_shift_schedule_items	updated_date	timestamp without time zone	
schedules		work_area_shift_schedule_items	updated_user_id	text	
schedules		work_area_shift_schedule_items	work_area_shift_schedule_id	uuid	
schedules		work_area_shift_schedule_items	work_area_workplace_id	uuid	
schedules		work_area_shift_schedule_items	worker_id	uuid	
schedules		work_area_shift_schedule_items	worker_position	integer	
schedules		work_area_shift_schedule_items	worker_profession	text	
schedules		work_area_shift_schedule_items	workplace_position	integer	
schedules		work_area_shift_schedule_items	workplace_title	text	
schedules		work_area_shift_schedules	deleted_date	timestamp without time zone	
schedules		work_area_shift_schedules	deleted_user_id	text	
schedules		work_area_shift_schedules	id	uuid	PRIMARY KEY
schedules		work_area_shift_schedules	inserted_date	timestamp without time zone	
schedules	workareashiftschedules	work_area_shift_schedules	inserted_user_id	text	
schedules		work_area_shift_schedules	month	integer	
schedules		work_area_shift_schedules	updated_date	timestamp without time zone	
schedules		work_area_shift_schedules	updated_user_id	text	
schedules		work_area_shift_schedules	work_area_id	uuid	
schedules		work_area_shift_schedules	year	integer	
sds		sds_medical_check_ups	deleted_date	timestamp without time zone	
sds		sds_medical_check_ups	deleted_user_id	text	
sds		sds_medical_check_ups	id	uuid	PRIMARY KEY
sds		sds_medical_check_ups	inserted_date	timestamp without time zone	
sds	СДС - результаты прохождение медицинских осмотров сотрудниками	sds_medical_check_ups	inserted_user_id	text	
sds		sds_medical_check_ups	medical_check_up_date	timestamp without time zone	
sds		sds_medical_check_ups	medical_check_up_result	boolean	
sds		sds_medical_check_ups	medical_check_up_type	boolean	
sds		sds_medical_check_ups	updated_date	timestamp without time zone	
sds		sds_medical_check_ups	updated_user_id	text	
sds		sds_medical_check_ups	worker_id	uuid	
sds		sds_worker_ppes	deleted_date	timestamp without time zone	
sds		sds_worker_ppes	deleted_user_id	text	
sds		sds_worker_ppes	id	uuid	PRIMARY KEY
sds		sds_worker_ppes	inserted_date	timestamp without time zone	
sds		sds_worker_ppes	inserted_user_id	text	
sds	СДС - СО/СИЗ выданные сотруднику	sds_worker_ppes	ppe_end_of_life_date	timestamp without time zone	
sds		sds_worker_ppes	ppe_type	integer	
sds		sds_worker_ppes	season_type	integer	
sds		sds_worker_ppes	updated_date	timestamp without time zone	
sds		sds_worker_ppes	updated_user_id	text	
sds		sds_worker_ppes	worker_id	uuid	
security_measures		security_measure_histories	content	text	
security_measures		security_measure_histories	contractor_id	uuid	
security_measures		security_measure_histories	deleted_date	timestamp without time zone	
security_measures		security_measure_histories	deleted_user_id	text	
security_measures	История изменений мер безопасности	security_measure_histories	id	uuid	PRIMARY KEY
security_measures		security_measure_histories	inserted_date	timestamp without time zone	
security_measures		security_measure_histories	inserted_user_id	text	
security_measures		security_measure_histories	security_measure_id	uuid	
security_measures		security_measure_histories	updated_date	timestamp without time zone	
security_measures		security_measure_histories	updated_user_id	text	
security_measures		security_measures	contractor_id	uuid	
security_measures		security_measures	deleted_date	timestamp without time zone	
security_measures	Меры безопасности	security_measures	deleted_user_id	text	
security_measures		security_measures	id	uuid	PRIMARY KEY

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security_measures		security_measures	inserted_date	timestamp without time zone	
security_measures		security_measures	inserted_user_id	text	
security_measures		security_measures	updated_date	timestamp without time zone	
security_measures		security_measures	updated_user_id	text	
task_books		task_book_histories	contractor_id	uuid	
task_books		task_book_histories	deleted_date	timestamp without time zone	
task_books		task_book_histories	deleted_user_id	text	
task_books		task_book_histories	has_task_done_sign	boolean	
task_books		task_book_histories	id	uuid	PRIMARY KEY
task_books		task_book_histories	inserted_date	timestamp without time zone	
task_books		task_book_histories	inserted_user_id	text	
task_books		task_book_histories	is_common	boolean	
task_books	История изменений книги нарядов	task_book_histories	reason_change	text	
task_books		task_book_histories	responsibility_types	jsonb	
task_books		task_book_histories	task_book_id	uuid	
task_books		task_book_histories	task_book_type	integer	
task_books		task_book_histories	title	text	
task_books		task_book_histories	updated_date	timestamp without time zone	
task_books		task_book_histories	updated_user_id	text	
task_books		task_book_histories	version	text	
task_books		task_book_histories	version_date	timestamp without time zone	
task_books		task_books	contractor_id	uuid	
task_books		task_books	deleted_date	timestamp without time zone	
task_books		task_books	deleted_user_id	text	
task_books	Книги нарядов	task_books	id	uuid	PRIMARY KEY
task_books		task_books	inserted_date	timestamp without time zone	
task_books		task_books	inserted_user_id	text	
task_books		task_books	updated_date	timestamp without time zone	
task_books		task_books	updated_user_id	text	
tasks		task_approval_histories	approval_user_id	text	
tasks		task_approval_histories	card_code	text	
tasks		task_approval_histories	comment	text	
tasks		task_approval_histories	deleted_date	timestamp without time zone	
tasks		task_approval_histories	deleted_user_id	text	
tasks		task_approval_histories	id	uuid	PRIMARY KEY
tasks		task_approval_histories	inserted_date	timestamp without time zone	
tasks	История согласования наряда	task_approval_histories	inserted_user_id	text	
tasks		task_approval_histories	is_approve	boolean	
tasks		task_approval_histories	signature_confirm_password	text	
tasks		task_approval_histories	task_approval_type	integer	
tasks		task_approval_histories	task_issue_id	uuid	
tasks		task_approval_histories	updated_date	timestamp without time zone	
tasks		task_approval_histories	updated_user_id	text	
tasks		task_approval_histories	with_comment	boolean	
tasks		task_attached_files	deleted_date	timestamp without time zone	
tasks		task_attached_files	deleted_user_id	text	
tasks		task_attached_files	file_category	integer	
tasks		task_attached_files	id	uuid	PRIMARY KEY
tasks		task_attached_files	inserted_date	timestamp without time zone	
tasks	Документы прикрепленные к наряду	task_attached_files	inserted_user_id	text	
tasks		task_attached_files	prefix	text	
tasks		task_attached_files	task_file	bytea	
tasks		task_attached_files	task_issue_id	uuid	
tasks		task_attached_files	updated_date	timestamp without time zone	
tasks		task_attached_files	updated_user_id	text	
tasks		task_editors	deleted_date	timestamp without time zone	
tasks		task_editors	deleted_user_id	text	
tasks		task_editors	editor_id	text	
tasks		task_editors	id	uuid	PRIMARY KEY
tasks	Сотрудники вносившие изменения в наряд	task_editors	inserted_date	timestamp without time zone	
tasks		task_editors	inserted_user_id	text	
tasks		task_editors	task_issue_id	uuid	
tasks		task_editors	updated_date	timestamp without time zone	
tasks		task_editors	updated_user_id	text	

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tasks		task_imploding_works	deleted_date	timestamp without time zone	
tasks		task_imploding_works	deleted_user_id	text	
tasks		task_imploding_works	id	uuid	PRIMARY KEY
tasks		task_imploding_works	inserted_date	timestamp without time zone	
tasks		task_imploding_works	inserted_user_id	text	
tasks	Проведение взрывных работ	task_imploding_works	place	text	
tasks		task_imploding_works	task_issue_id	uuid	
tasks		task_imploding_works	time_begin	interval	
tasks		task_imploding_works	time_end	interval	
tasks		task_imploding_works	updated_date	timestamp without time zone	
tasks		task_imploding_works	updated_user_id	text	
tasks		task_issues	addition_task_index	integer	
tasks		task_issues	cause_not_equal_rise_and_down	text	
tasks		task_issues	closed_date	timestamp without time zone	
tasks		task_issues	deleted_date	timestamp without time zone	
tasks		task_issues	deleted_user_id	text	
tasks		task_issues	has_imploding	boolean	
tasks		task_issues	id	uuid	PRIMARY KEY
tasks		task_issues	inserted_date	timestamp without time zone	
tasks		task_issues	inserted_user_id	text	
tasks	Наряды	task_issues	issue_date	timestamp without time zone	
tasks		task_issues	issued_date	timestamp without time zone	
tasks		task_issues	parent_task_id	uuid	
tasks		task_issues	rose_to_surface	integer	
tasks		task_issues	status	integer	
tasks		task_issues	task_book_id	uuid	
tasks		task_issues	updated_date	timestamp without time zone	
tasks		task_issues	updated_user_id	text	
tasks		task_issues	work_area_id	uuid	
tasks		task_issues	work_area_shift_id	uuid	
tasks		task_item_work_type_joint_works	approval_user_id	text	
tasks		task_item_work_type_joint_works	comment	text	
tasks		task_item_work_type_joint_works	deleted_date	timestamp without time zone	
tasks		task_item_work_type_joint_works	deleted_user_id	text	
tasks	Согласование совместных работ в детализации наряда	task_item_work_type_joint_works	id	uuid	PRIMARY KEY
tasks		task_item_work_type_joint_works	inserted_date	timestamp without time zone	
tasks		task_item_work_type_joint_works	inserted_user_id	text	
tasks		task_item_work_type_joint_works	is_approve	boolean	
tasks		task_item_work_type_joint_works	task_item_work_type_id	uuid	
tasks		task_item_work_type_joint_works	updated_date	timestamp without time zone	
tasks		task_item_work_type_joint_works	updated_user_id	text	
tasks		task_item_work_types	danger_executing_works	jsonb	
tasks		task_item_work_types	danger_preparing_works	jsonb	
tasks		task_item_work_types	deleted_date	timestamp without time zone	
tasks		task_item_work_types	deleted_user_id	text	
tasks		task_item_work_types	destination_task_item_work_type_id	uuid	
tasks		task_item_work_types	end_date_time_fact	timestamp without time zone	
tasks		task_item_work_types	end_date_time_plan	timestamp without time zone	
tasks		task_item_work_types	evraz_dome_formation_alarm_id	uuid	
tasks		task_item_work_types	external_id	text	
tasks		task_item_work_types	failure_cause	text	
tasks		task_item_work_types	id	uuid	PRIMARY KEY
tasks	Задания в детализации нарядов	task_item_work_types	inserted_date	timestamp without time zone	
tasks		task_item_work_types	inserted_user_id	text	
tasks		task_item_work_types	is_change_task_issue	boolean	
tasks		task_item_work_types	is_fix_violation	boolean	
tasks		task_item_work_types	is_preset_work_type	boolean	
tasks		task_item_work_types	is_task_complete	boolean	
tasks		task_item_work_types	joint_work_area_id	uuid	
tasks		task_item_work_types	measure_unit_id	uuid	
tasks		task_item_work_types	order_number	text	
tasks		task_item_work_types	repair_type_id	uuid	
tasks		task_item_work_types	repair_types	jsonb	
tasks		task_item_work_types	responsible_id	uuid	

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tasks		task_item_work_types	security_measures	jsonb	
tasks		task_item_work_types	security_route_violation_id	uuid	
tasks		task_item_work_types	source_task_item_work_type_id	uuid	
tasks		task_item_work_types	start_date_time_fact	timestamp without time zone	
tasks		task_item_work_types	start_date_time_plan	timestamp without time zone	
tasks		task_item_work_types	task_item_id	uuid	
tasks		task_item_work_types	task_number	text	
tasks		task_item_work_types	tech_map_content	text	
tasks		task_item_work_types	tech_maps	jsonb	
tasks		task_item_work_types	tech_position_id	uuid	
tasks		task_item_work_types	tech_position_title	text	
tasks		task_item_work_types	tech_positions	jsonb	
tasks		task_item_work_types	updated_date	timestamp without time zone	
tasks		task_item_work_types	updated_user_id	text	
tasks		task_item_work_types	volume_fact	double precision	
tasks		task_item_work_types	volume_norm	double precision	
tasks		task_item_work_types	work_type_content	text	
tasks		task_item_work_types	work_type_id	uuid	
tasks		task_item_work_types	work_type_item_content	text	
tasks		task_item_work_types	work_type_item_id	uuid	
tasks		task_item_work_types	work_type_items	jsonb	
tasks		task_item_work_types	work_types	jsonb	
tasks		task_item_work_types	workplace_id	uuid	
tasks		task_item_work_types	workplace_title	text	
tasks		task_item_worker_actions	action_type	integer	
tasks		task_item_worker_actions	deleted_date	timestamp without time zone	
tasks		task_item_worker_actions	deleted_user_id	text	
tasks		task_item_worker_actions	id	uuid	PRIMARY KEY
tasks		task_item_worker_actions	inserted_date	timestamp without time zone	
tasks	Действия сотрудника при получении наряда	task_item_worker_actions	inserted_user_id	text	
tasks		task_item_worker_actions	task_item_id	uuid	
tasks		task_item_worker_actions	updated_date	timestamp without time zone	
tasks		task_item_worker_actions	updated_user_id	text	
tasks		task_item_worker_actions	worker_id	uuid	
tasks		task_item_workers	card_code	text	
tasks		task_item_workers	card_code_task_done	text	
tasks		task_item_workers	comment_del_after_approval	text	
tasks		task_item_workers	deleted_date	timestamp without time zone	
tasks		task_item_workers	deleted_user_id	text	
tasks		task_item_workers	eds_date	timestamp without time zone	
tasks		task_item_workers	eds_password	text	
tasks		task_item_workers	eds_password_task_done	text	
tasks		task_item_workers	eds_task_done_date	timestamp without time zone	
tasks		task_item_workers	employee_number_mi	text	
tasks		task_item_workers	energy_security_group	text	
tasks		task_item_workers	equipments	jsonb	
tasks		task_item_workers	health_status	boolean	
tasks		task_item_workers	id	uuid	PRIMARY KEY
tasks	Сотрудники в детализации нарядов	task_item_workers	inserted_date	timestamp without time zone	
tasks		task_item_workers	inserted_user_id	text	
tasks		task_item_workers	is_admitted	boolean	
tasks		task_item_workers	is_apprentice	boolean	
tasks		task_item_workers	is_change_task_issue	boolean	
tasks		task_item_workers	is_del_after_approval	boolean	
tasks		task_item_workers	is_evraz_toro	boolean	
tasks		task_item_workers	is_handwrite_signature	boolean	
tasks		task_item_workers	is_mentor	boolean	
tasks		task_item_workers	is_shift_supervisor	boolean	
tasks		task_item_workers	is_trainee	boolean	
tasks		task_item_workers	list_index	integer	
tasks		task_item_workers	loto_number	text	
tasks		task_item_workers	provision	double precision	
tasks		task_item_workers	refuse_reason	text	
tasks		task_item_workers	refuse_reason_task_done	text	

Схема данных	Назначение таблицы	Наименование таблицы	Наименование поля	Тип поля	Первичный ключ
tasks		task_item_workers	rout_sheet_number	text	
tasks		task_item_workers	seconded_company_title	text	
tasks		task_item_workers	task_item_id	uuid	
tasks		task_item_workers	test_rating	double precision	
tasks		task_item_workers	updated_date	timestamp without time zone	
tasks		task_item_workers	updated_user_id	text	
tasks		task_item_workers	worker_id	uuid	
tasks		task_item_workers	worker_lamproom_id	text	
tasks		task_item_workers	worker_name_mi	text	
tasks		task_item_workers	worker_profession_mi	text	
tasks		task_item_workplaces	deleted_date	timestamp without time zone	
tasks		task_item_workplaces	deleted_user_id	text	
tasks		task_item_workplaces	id	uuid	PRIMARY KEY
tasks		task_item_workplaces	inserted_date	timestamp without time zone	
tasks	Рабочие места в детализации нарядов	task_item_workplaces	inserted_user_id	text	
tasks		task_item_workplaces	task_item_id	uuid	
tasks		task_item_workplaces	updated_date	timestamp without time zone	
tasks		task_item_workplaces	updated_user_id	text	
tasks		task_item_workplaces	workplace_id	uuid	
tasks		task_item_workplaces	workplace_mi	text	
tasks		task_items	deleted_date	timestamp without time zone	
tasks		task_items	deleted_user_id	text	
tasks		task_items	destination_task_item_id	uuid	
tasks		task_items	destination_work_area_id	uuid	
tasks		task_items	disabled_comment	text	
tasks		task_items	end_time_fact	timestamp without time zone	
tasks		task_items	end_time_plan	timestamp without time zone	
tasks		task_items	id	uuid	PRIMARY KEY
tasks		task_items	inserted_date	timestamp without time zone	
tasks		task_items	inserted_user_id	text	
tasks		task_items	integration_type	integer	
tasks		task_items	is_change_task_issue	boolean	
tasks		task_items	is_disabled	boolean	
tasks		task_items	is_underground	boolean	
tasks	Детализации нарядов	task_items	list_index	integer	
tasks		task_items	source_task_item_id	uuid	
tasks		task_items	source_work_area_id	uuid	
tasks		task_items	start_time_fact	timestamp without time zone	
tasks		task_items	start_time_plan	timestamp without time zone	
tasks		task_items	task_aceess_number	text	
tasks		task_items	task_issue_id	uuid	
tasks		task_items	updated_date	timestamp without time zone	
tasks		task_items	updated_user_id	text	
tasks		task_items	worker_transfer_type	integer	
tasks		task_responsible_persons	card_code	text	
tasks		task_responsible_persons	card_code_task_done	text	
tasks		task_responsible_persons	deleted_date	timestamp without time zone	
tasks		task_responsible_persons	deleted_user_id	text	
tasks		task_responsible_persons	eds_date	timestamp without time zone	
tasks		task_responsible_persons	eds_password	text	
tasks		task_responsible_persons	eds_password_task_done	text	
tasks		task_responsible_persons	eds_task_done_date	timestamp without time zone	
tasks		task_responsible_persons	employee_number_mi	text	
tasks		task_responsible_persons	energy_security_group	text	
tasks	Ответственные сотрудники в наряде	task_responsible_persons	id	uuid	PRIMARY KEY
tasks		task_responsible_persons	inserted_date	timestamp without time zone	
tasks		task_responsible_persons	inserted_user_id	text	
tasks		task_responsible_persons	is_by_phone	boolean	
tasks		task_responsible_persons	is_underground	boolean	
tasks		task_responsible_persons	responsibility_type	integer	
tasks		task_responsible_persons	task_issue_id	uuid	
tasks		task_responsible_persons	updated_date	timestamp without time zone	
tasks		task_responsible_persons	updated_user_id	text	
tasks		task_responsible_persons	worker_id	uuid	

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tasks		task_responsible_persons	worker_name_mi	text	
tasks		task_responsible_persons	worker_profession_mi	text	
tasks	Меры безопасности при проведении работ по наряду	task_security_measures	deleted_date	timestamp without time zone	
tasks		task_security_measures	deleted_user_id	text	
tasks		task_security_measures	id	uuid	PRIMARY KEY
tasks		task_security_measures	inserted_date	timestamp without time zone	
tasks		task_security_measures	inserted_user_id	text	
tasks		task_security_measures	security_measures	jsonb	
tasks		task_security_measures	task_issue_id	uuid	
tasks		task_security_measures	updated_date	timestamp without time zone	
tasks		task_security_measures	updated_user_id	text	
tasks	Отчеты по смене	task_shift_reports	deleted_date	timestamp without time zone	
tasks		task_shift_reports	deleted_user_id	text	
tasks		task_shift_reports	fastening_state	text	
tasks		task_shift_reports	id	uuid	PRIMARY KEY
tasks		task_shift_reports	inserted_date	timestamp without time zone	
tasks		task_shift_reports	inserted_user_id	text	
tasks		task_shift_reports	shift_report_type	integer	
tasks		task_shift_reports	task_issue_id	uuid	
tasks		task_shift_reports	updated_date	timestamp without time zone	
tasks		task_shift_reports	updated_user_id	text	
tasks		task_shift_reports	ventilation_state	text	
tasks		task_shift_reports	workplace_id	uuid	
tasks		task_shift_reports	workplace_state	text	
tasks		task_shift_reports	workplace_title	text	
tech_maps	Технологические карты	tech_map	contractor_id	uuid	
tech_maps		tech_map	deleted_date	timestamp without time zone	
tech_maps		tech_map	deleted_user_id	text	
tech_maps		tech_map	id	uuid	PRIMARY KEY
tech_maps		tech_map	inserted_date	timestamp without time zone	
tech_maps		tech_map	inserted_user_id	text	
tech_maps		tech_map	updated_date	timestamp without time zone	
tech_maps		tech_map	updated_user_id	text	
tech_maps	История изменений технологических карт	tech_map_histories	contractor_id	uuid	
tech_maps		tech_map_histories	deleted_date	timestamp without time zone	
tech_maps		tech_map_histories	deleted_user_id	text	
tech_maps		tech_map_histories	id	uuid	PRIMARY KEY
tech_maps		tech_map_histories	inserted_date	timestamp without time zone	
tech_maps		tech_map_histories	inserted_user_id	text	
tech_maps		tech_map_histories	map_content	text	
tech_maps		tech_map_histories	tech_map_id	uuid	
tech_maps		tech_map_histories	title	text	
tech_maps		tech_map_histories	updated_date	timestamp without time zone	
tech_maps		tech_map_histories	updated_user_id	text	
uploaded_file	Файлы загруженные на сервер	uploaded_files	deleted_date	timestamp without time zone	
uploaded_file		uploaded_files	deleted_user_id	text	
uploaded_file		uploaded_files	file_category	integer	
uploaded_file		uploaded_files	file_path	text	
uploaded_file		uploaded_files	id	uuid	PRIMARY KEY
uploaded_file		uploaded_files	inserted_date	timestamp without time zone	
uploaded_file		uploaded_files	inserted_user_id	text	
uploaded_file		uploaded_files	updated_date	timestamp without time zone	
uploaded_file		uploaded_files	updated_user_id	text	
violations	История изменений выявленых нарушений	violation_histories	contractor_id	uuid	
violations		violation_histories	deleted_date	timestamp without time zone	
violations		violation_histories	deleted_user_id	text	
violations		violation_histories	description	text	
violations		violation_histories	id	uuid	PRIMARY KEY
violations		violation_histories	inserted_date	timestamp without time zone	
violations		violation_histories	inserted_user_id	text	
violations		violation_histories	updated_date	timestamp without time zone	
violations		violation_histories	updated_user_id	text	
violations		violation_histories	violation_id	uuid	
violations	Справочник нарушений	violations	contractor_id	uuid	

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violations	выявленных участком ВТБ	violations	deleted_date	timestamp without time zone	
violations		violations	deleted_user_id	text	
violations		violations	id	uuid	PRIMARY KEY
violations		violations	inserted_date	timestamp without time zone	
violations		violations	inserted_user_id	text	
violations		violations	updated_date	timestamp without time zone	
violations		violations	updated_user_id	text	
vtb		security_route_items	deleted_date	timestamp without time zone	
vtb		security_route_items	deleted_user_id	text	
vtb		security_route_items	id	uuid	PRIMARY KEY
vtb		security_route_items	inserted_date	timestamp without time zone	
vtb	Рабочие места маршрутов подлежащие проверке	security_route_items	inserted_user_id	text	
vtb		security_route_items	security_route_id	uuid	
vtb		security_route_items	updated_date	timestamp without time zone	
vtb		security_route_items	updated_user_id	text	
vtb		security_route_items	work_area_id	uuid	
vtb		security_route_items	workplace_id	uuid	
vtb		security_route_task_items	deleted_date	timestamp without time zone	
vtb		security_route_task_items	deleted_user_id	text	
vtb		security_route_task_items	id	uuid	PRIMARY KEY
vtb		security_route_task_items	inserted_date	timestamp without time zone	
vtb	Детализация нарядов на маршрут проверки на наличие нарушений промышленной безопасности	security_route_task_items	inserted_user_id	text	
vtb		security_route_task_items	list_index	integer	
vtb		security_route_task_items	security_route_item_id	uuid	
vtb		security_route_task_items	security_route_task_id	uuid	
vtb		security_route_task_items	updated_date	timestamp without time zone	
vtb		security_route_task_items	updated_user_id	text	
vtb		security_route_task_items	work_area_history_id	uuid	
vtb		security_route_task_items	workplace_history_id	uuid	
vtb		security_route_tasks	deleted_date	timestamp without time zone	
vtb		security_route_tasks	deleted_user_id	text	
vtb		security_route_tasks	employee_number	text	
vtb		security_route_tasks	id	uuid	PRIMARY KEY
vtb		security_route_tasks	inserted_date	timestamp without time zone	
vtb		security_route_tasks	inserted_user_id	text	
vtb		security_route_tasks	issue_date	timestamp without time zone	
vtb	Наряды на маршрут проверки на наличие нарушений промышленной безопасности	security_route_tasks	security_route_id	uuid	
vtb		security_route_tasks	security_route_title	text	
vtb		security_route_tasks	shift_number	integer	
vtb		security_route_tasks	task_book_history_id	uuid	
vtb		security_route_tasks	updated_date	timestamp without time zone	
vtb		security_route_tasks	updated_user_id	text	
vtb		security_route_tasks	worker_history_id	uuid	
vtb		security_route_tasks	worker_name	text	
vtb		security_route_tasks	worker_profession	text	
vtb		security_route_violations	deleted_date	timestamp without time zone	
vtb		security_route_violations	deleted_user_id	text	
vtb		security_route_violations	description	text	
vtb		security_route_violations	failure_cause	text	
vtb		security_route_violations	id	uuid	PRIMARY KEY
vtb		security_route_violations	inserted_date	timestamp without time zone	
vtb		security_route_violations	inserted_user_id	text	
vtb		security_route_violations	is_eliminated	boolean	
vtb	Нарушения выявленные на маршрутах участком ВТБ	security_route_violations	is_in_execution	boolean	
vtb		security_route_violations	is_new_violation	boolean	
vtb		security_route_violations	measure_unit_history_id	uuid	
vtb		security_route_violations	responsible_work_area_id	uuid	
vtb		security_route_violations	security_route_task_item_id	uuid	
vtb		security_route_violations	updated_date	timestamp without time zone	
vtb		security_route_violations	updated_user_id	text	
vtb		security_route_violations	violation_history_id	uuid	
vtb		security_route_violations	volume_fact	double precision	
vtb		security_route_violations	volume_norm	double precision	
vtb	Маршруты проверки на	security_routes	contractor_id	uuid	

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vtb	наличие нарушений промышленной безопасности	security_routes	deleted_date	timestamp without time zone	
vtb		security_routes	deleted_user_id	text	
vtb		security_routes	id	uuid	PRIMARY KEY
vtb		security_routes	inserted_date	timestamp without time zone	
vtb		security_routes	inserted_user_id	text	
vtb		security_routes	title	text	
vtb		security_routes	updated_date	timestamp without time zone	
vtb		security_routes	updated_user_id	text	
work_areas		work_area_histories	contractor_id	uuid	
work_areas		work_area_histories	deleted_date	timestamp without time zone	
work_areas		work_area_histories	deleted_user_id	text	
work_areas		work_area_histories	external_id	text	
work_areas		work_area_histories	id	uuid	PRIMARY KEY
work_areas		work_area_histories	inserted_date	timestamp without time zone	
work_areas		work_area_histories	inserted_user_id	text	
work_areas	История изменений рабочих участков	work_area_histories	is_active	boolean	
work_areas		work_area_histories	is_seconded_company	boolean	
work_areas		work_area_histories	seconded_company_id	uuid	
work_areas		work_area_histories	title	text	
work_areas		work_area_histories	updated_date	timestamp without time zone	
work_areas		work_area_histories	updated_user_id	text	
work_areas		work_area_histories	work_area_id	uuid	
work_areas		work_area_histories	work_area_type	integer	
work_areas		work_area_measure_units	default_value	text	
work_areas		work_area_measure_units	deleted_date	timestamp without time zone	
work_areas		work_area_measure_units	deleted_user_id	text	
work_areas		work_area_measure_units	id	uuid	PRIMARY KEY
work_areas	Единицы измерения на рабочих участках	work_area_measure_units	inserted_date	timestamp without time zone	
work_areas		work_area_measure_units	inserted_user_id	text	
work_areas		work_area_measure_units	measure_unit_id	uuid	
work_areas		work_area_measure_units	updated_date	timestamp without time zone	
work_areas		work_area_measure_units	updated_user_id	text	
work_areas		work_area_measure_units	work_area_id	uuid	
work_areas		work_area_security_measures	deleted_date	timestamp without time zone	
work_areas		work_area_security_measures	deleted_user_id	text	
work_areas		work_area_security_measures	id	uuid	PRIMARY KEY
work_areas		work_area_security_measures	inserted_date	timestamp without time zone	
work_areas	Меры безопасности на рабочих участках	work_area_security_measures	inserted_user_id	text	
work_areas		work_area_security_measures	is_default_select	boolean	
work_areas		work_area_security_measures	security_measure_id	uuid	
work_areas		work_area_security_measures	updated_date	timestamp without time zone	
work_areas		work_area_security_measures	updated_user_id	text	
work_areas		work_area_security_measures	work_area_id	uuid	
work_areas		work_area_settings	auto_closed_timeout	integer	
work_areas		work_area_settings	auto_issued_timeout	integer	
work_areas		work_area_settings	deleted_date	timestamp without time zone	
work_areas		work_area_settings	deleted_user_id	text	
work_areas		work_area_settings	has_change_task_issue	boolean	
work_areas		work_area_settings	has_imploding_works	boolean	
work_areas		work_area_settings	has_loto	boolean	
work_areas		work_area_settings	has_security_measure	boolean	
work_areas		work_area_settings	has_tablet_testing	boolean	
work_areas		work_area_settings	has_worker_lamproom_id	boolean	
work_areas	Настроки рабочих участков	work_area_settings	id	uuid	PRIMARY KEY
work_areas		work_area_settings	inserted_date	timestamp without time zone	
work_areas		work_area_settings	inserted_user_id	text	
work_areas		work_area_settings	is_admitted_enabled	boolean	
work_areas		work_area_settings	is_all_workers_eds_required	boolean	
work_areas		work_area_settings	is_approved_by_dispatcher	boolean	
work_areas		work_area_settings	is_approved_by_dispatcher_before_closing	boolean	
work_areas		work_area_settings	is_approved_by_fire_prorection	boolean	
work_areas		work_area_settings	is_approved_by_mechanic	boolean	
work_areas		work_area_settings	is_approved_by_object_ready	boolean	
work_areas		work_area_settings	is_approved_by_power_engineer	boolean	

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work_areas		work_area_settings	is_approved_by_task_access	boolean	
work_areas		work_area_settings	is_approved_by_vtb	boolean	
work_areas		work_area_settings	is_auto_closed_enabled	boolean	
work_areas		work_area_settings	is_auto_issued_enabled	boolean	
work_areas		work_area_settings	is_del_worker_after_approval_enabled	boolean	
work_areas		work_area_settings	is_eds_password_required	boolean	
work_areas		work_area_settings	is_show_task_book_title	boolean	
work_areas		work_area_settings	is_task_copy_enabled	boolean	
work_areas		work_area_settings	responsible_professions	jsonb	
work_areas		work_area_settings	updated_date	timestamp without time zone	
work_areas		work_area_settings	updated_user_id	text	
work_areas		work_area_settings	vgk_required_number	integer	
work_areas		work_area_settings	work_area_id	uuid	
work_areas		work_area_settings	worker_search_params	integer	
work_areas		work_area_shift_histories	deleted_date	timestamp without time zone	
work_areas		work_area_shift_histories	deleted_user_id	text	
work_areas		work_area_shift_histories	id	uuid	PRIMARY KEY
work_areas		work_area_shift_histories	inserted_date	timestamp without time zone	
work_areas		work_area_shift_histories	inserted_user_id	text	
work_areas		work_area_shift_histories	shift_number	integer	
work_areas	История изменений смен рабочих участков	work_area_shift_histories	time_begin	interval	
work_areas		work_area_shift_histories	time_end	interval	
work_areas		work_area_shift_histories	updated_date	timestamp without time zone	
work_areas		work_area_shift_histories	updated_user_id	text	
work_areas		work_area_shift_histories	work_area_id	uuid	
work_areas		work_area_shift_histories	work_area_shift_id	uuid	
work_areas		work_area_shift_histories	working_week_days	jsonb	
work_areas		work_area_shifts	deleted_date	timestamp without time zone	
work_areas		work_area_shifts	deleted_user_id	text	
work_areas		work_area_shifts	id	uuid	PRIMARY KEY
work_areas		work_area_shifts	inserted_date	timestamp without time zone	
work_areas	Смены на рабочих участках	work_area_shifts	inserted_user_id	text	
work_areas		work_area_shifts	updated_date	timestamp without time zone	
work_areas		work_area_shifts	updated_user_id	text	
work_areas		work_area_shifts	work_area_id	uuid	
work_areas		work_area_task_attention_view	danger_zone	integer	
work_areas		work_area_task_attention_view	dome_formation_alarm	bigint	
work_areas	Представление предупреждений о наличии нарушений, тревог и т.п.	work_area_task_attention_view	dynamic_phenomena	integer	
work_areas		work_area_task_attention_view	hse_violation	integer	
work_areas		work_area_task_attention_view	vtb_violation	integer	
work_areas		work_area_task_attention_view	work_area_id	uuid	
work_areas		work_area_task_book_histories	deleted_date	timestamp without time zone	
work_areas		work_area_task_book_histories	deleted_user_id	text	
work_areas		work_area_task_book_histories	id	uuid	PRIMARY KEY
work_areas		work_area_task_book_histories	inserted_date	timestamp without time zone	
work_areas	История изменений книг нарядов рабочих участков	work_area_task_book_histories	inserted_user_id	text	
work_areas		work_area_task_book_histories	page_format	integer	
work_areas		work_area_task_book_histories	task_book_id	uuid	
work_areas		work_area_task_book_histories	updated_date	timestamp without time zone	
work_areas		work_area_task_book_histories	updated_user_id	text	
work_areas		work_area_task_book_histories	work_area_id	uuid	
work_areas		work_area_task_book_histories	work_area_task_book_id	uuid	
work_areas		work_area_task_book_settings	auto_sign_delay	integer	
work_areas		work_area_task_book_settings	default_work_types	jsonb	
work_areas		work_area_task_book_settings	deleted_date	timestamp without time zone	
work_areas		work_area_task_book_settings	deleted_user_id	text	
work_areas		work_area_task_book_settings	has_descent_list	boolean	
work_areas		work_area_task_book_settings	has_equipment	boolean	
work_areas	Настроки книг нарядов на рабочих участках	work_area_task_book_settings	has_gas_measurement_results	boolean	
work_areas		work_area_task_book_settings	has_mentor	boolean	
work_areas		work_area_task_book_settings	has_rout_sheet_number	boolean	
work_areas		work_area_task_book_settings	has_shift_supervisor	boolean	
work_areas		work_area_task_book_settings	has_task_done_flag	boolean	
work_areas		work_area_task_book_settings	has_task_shift_report	boolean	

Схема данных	Назначение таблицы	Наименование таблицы	Наименование поля	Тип поля	Первичный ключ
work_areas		work_area_task_book_settings	has_work_time_period	boolean	
work_areas		work_area_task_book_settings	id	uuid	PRIMARY KEY
work_areas		work_area_task_book_settings	inserted_date	timestamp without time zone	
work_areas		work_area_task_book_settings	inserted_user_id	text	
work_areas		work_area_task_book_settings	is_auto_sign	boolean	
work_areas		work_area_task_book_settings	is_include_in_general_mine_book	boolean	
work_areas		work_area_task_book_settings	is_measure_unit_and_volume_required	boolean	
work_areas		work_area_task_book_settings	is_transfer_enable	boolean	
work_areas		work_area_task_book_settings	is_transfer_worker_wp_enable	boolean	
work_areas		work_area_task_book_settings	is_transfer_worker_wp_wt_enable	boolean	
work_areas		work_area_task_book_settings	is_underground	boolean	
work_areas		work_area_task_book_settings	is_work_types_required	boolean	
work_areas		work_area_task_book_settings	is_workers_required	boolean	
work_areas		work_area_task_book_settings	page_format	integer	
work_areas		work_area_task_book_settings	responsibility_type_settings	jsonb	
work_areas		work_area_task_book_settings	responsible_requireds	jsonb	
work_areas		work_area_task_book_settings	task_book_id	uuid	
work_areas		work_area_task_book_settings	updated_date	timestamp without time zone	
work_areas		work_area_task_book_settings	updated_user_id	text	
work_areas		work_area_task_book_settings	work_area_id	uuid	
work_areas	Книги нарядов на рабочих участках	work_area_task_books	deleted_date	timestamp without time zone	
work_areas		work_area_task_books	deleted_user_id	text	
work_areas		work_area_task_books	id	uuid	PRIMARY KEY
work_areas		work_area_task_books	inserted_date	timestamp without time zone	
work_areas		work_area_task_books	inserted_user_id	text	
work_areas		work_area_task_books	task_book_id	uuid	
work_areas		work_area_task_books	updated_date	timestamp without time zone	
work_areas		work_area_task_books	updated_user_id	text	
work_areas		work_area_task_books	work_area_id	uuid	
work_areas	Технологические карты на рабочих участках	work_area_tech_maps	deleted_date	timestamp without time zone	
work_areas		work_area_tech_maps	deleted_user_id	text	
work_areas		work_area_tech_maps	id	uuid	PRIMARY KEY
work_areas		work_area_tech_maps	inserted_date	timestamp without time zone	
work_areas		work_area_tech_maps	inserted_user_id	text	
work_areas		work_area_tech_maps	tech_map_id	uuid	
work_areas		work_area_tech_maps	updated_date	timestamp without time zone	
work_areas		work_area_tech_maps	updated_user_id	text	
work_areas		work_area_tech_maps	work_area_id	uuid	
work_areas	Пользователи на рабочих участках	work_area_users	deleted_date	timestamp without time zone	
work_areas		work_area_users	deleted_user_id	text	
work_areas		work_area_users	id	uuid	PRIMARY KEY
work_areas		work_area_users	inserted_date	timestamp without time zone	
work_areas		work_area_users	inserted_user_id	text	
work_areas		work_area_users	updated_date	timestamp without time zone	
work_areas		work_area_users	updated_user_id	text	
work_areas		work_area_users	user_id	text	
work_areas		work_area_users	work_area_id	uuid	
work_areas	История изменений видов выполняемых работ на рабочих участках	work_area_work_type_histories	accidents	jsonb	
work_areas		work_area_work_type_histories	deleted_date	timestamp without time zone	
work_areas		work_area_work_type_histories	deleted_user_id	text	
work_areas		work_area_work_type_histories	id	uuid	PRIMARY KEY
work_areas		work_area_work_type_histories	inserted_date	timestamp without time zone	
work_areas		work_area_work_type_histories	inserted_user_id	text	
work_areas		work_area_work_type_histories	security_measures	jsonb	
work_areas		work_area_work_type_histories	tech_maps	jsonb	
work_areas		work_area_work_type_histories	updated_date	timestamp without time zone	
work_areas		work_area_work_type_histories	updated_user_id	text	
work_areas		work_area_work_type_histories	work_area_id	uuid	
work_areas		work_area_work_type_histories	work_area_work_type_id	uuid	
work_areas		work_area_work_type_histories	work_type_id	uuid	
work_areas	Представление видов и детализаций выполняемых работ на рабочем участке	work_area_work_type_view	work_area_id	uuid	
work_areas		work_area_work_type_view	work_area_work_type_history_id	uuid	
work_areas		work_area_work_type_view	work_content	text	
work_areas		work_area_work_type_view	work_item_content	text	

Схема данных	Назначение таблицы	Наименование таблицы	Наименование поля	Тип поля	Первичный ключ
work_areas		work_area_work_type_view	work_type_id	uuid	
work_areas		work_area_work_type_view	work_type_item_id	uuid	
work_areas		work_area_work_type_view	work_type_item_measure_unit_id	uuid	
work_areas		work_area_work_type_view	work_type_measure_unit_id	uuid	
work_areas		work_area_work_types	deleted_date	timestamp without time zone	
work_areas		work_area_work_types	deleted_user_id	text	
work_areas		work_area_work_types	id	uuid	PRIMARY KEY
work_areas	Виды выполняемых работ на рабочих участках	work_area_work_types	inserted_date	timestamp without time zone	
work_areas		work_area_work_types	inserted_user_id	text	
work_areas		work_area_work_types	updated_date	timestamp without time zone	
work_areas		work_area_work_types	updated_user_id	text	
work_areas		work_area_work_types	work_area_id	uuid	
work_areas		work_area_work_types	work_type_id	uuid	
work_areas		work_area_workplace_techposition_view	work_area_id	uuid	
work_areas		work_area_workplace_techposition_view	work_area_workplaces_id	uuid	
work_areas	Представление технологических позиций рабочих мест на рабочем участке	work_area_workplace_techposition_view	workplace_history_id	uuid	
work_areas		work_area_workplace_techposition_view	workplace_id	uuid	
work_areas		work_area_workplace_techposition_view	workplace_tech_position_id	uuid	
work_areas		work_area_workplace_techposition_view	workplace_tech_position_title	text	
work_areas		work_area_workplace_techposition_view	workplace_title	text	
work_areas		work_area_workplaces	deleted_date	timestamp without time zone	
work_areas		work_area_workplaces	deleted_user_id	text	
work_areas		work_area_workplaces	id	uuid	PRIMARY KEY
work_areas		work_area_workplaces	inserted_date	timestamp without time zone	
work_areas	Рабочие места на рабочих участках	work_area_workplaces	inserted_user_id	text	
work_areas		work_area_workplaces	updated_date	timestamp without time zone	
work_areas		work_area_workplaces	updated_user_id	text	
work_areas		work_area_workplaces	work_area_id	uuid	
work_areas		work_area_workplaces	workplace_id	uuid	
work_areas		work_areas	contractor_id	uuid	
work_areas		work_areas	deleted_date	timestamp without time zone	
work_areas		work_areas	deleted_user_id	text	
work_areas	Рабочие участки	work_areas	id	uuid	PRIMARY KEY
work_areas		work_areas	inserted_date	timestamp without time zone	
work_areas		work_areas	inserted_user_id	text	
work_areas		work_areas	updated_date	timestamp without time zone	
work_areas		work_areas	updated_user_id	text	
work_types		work_type_histories	contractor_id	uuid	
work_types		work_type_histories	danger_work_types	jsonb	
work_types		work_type_histories	deleted_date	timestamp without time zone	
work_types		work_type_histories	deleted_user_id	text	
work_types		work_type_histories	id	uuid	PRIMARY KEY
work_types		work_type_histories	inserted_date	timestamp without time zone	
work_types	История изменений видов выполняемых работ	work_type_histories	inserted_user_id	text	
work_types		work_type_histories	integration_type	integer	
work_types		work_type_histories	measure_unit_id	uuid	
work_types		work_type_histories	updated_date	timestamp without time zone	
work_types		work_type_histories	updated_user_id	text	
work_types		work_type_histories	work_content	text	
work_types		work_type_histories	work_type_id	uuid	
work_types		work_type_item_histories	deleted_date	timestamp without time zone	
work_types		work_type_item_histories	deleted_user_id	text	
work_types		work_type_item_histories	id	uuid	PRIMARY KEY
work_types		work_type_item_histories	inserted_date	timestamp without time zone	
work_types		work_type_item_histories	inserted_user_id	text	
work_types	История изменений детализации видов выполняемых работ	work_type_item_histories	measure_unit_id	uuid	
work_types		work_type_item_histories	updated_date	timestamp without time zone	
work_types		work_type_item_histories	updated_user_id	text	
work_types		work_type_item_histories	work_item_content	text	
work_types		work_type_item_histories	work_type_id	uuid	
work_types		work_type_item_histories	work_type_item_id	uuid	
work_types		work_type_items	deleted_date	timestamp without time zone	
work_types	Детализации видов выполняемых работ	work_type_items	deleted_user_id	text	
work_types		work_type_items	id	uuid	PRIMARY KEY

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Схема данных	Назначение таблицы	Наименование таблицы	Наименование поля	Тип поля	Первичный ключ
work_types		work_type_items	inserted_date	timestamp without time zone	
work_types		work_type_items	inserted_user_id	text	
work_types		work_type_items	updated_date	timestamp without time zone	
work_types		work_type_items	updated_user_id	text	
work_types		work_type_items	work_type_id	uuid	
work_types		work_types	contractor_id	uuid	
work_types		work_types	deleted_date	timestamp without time zone	
work_types		work_types	deleted_user_id	text	
work_types	Виды выполняемых работ	work_types	id	uuid	PRIMARY KEY
work_types		work_types	inserted_date	timestamp without time zone	
work_types		work_types	inserted_user_id	text	
work_types		work_types	updated_date	timestamp without time zone	
work_types		work_types	updated_user_id	text	
workers		staff_position_histories	contractor_id	uuid	
workers		staff_position_histories	deleted_date	timestamp without time zone	
workers		staff_position_histories	deleted_user_id	text	
workers		staff_position_histories	id	uuid	PRIMARY KEY
workers	История изменений штатных должностей	staff_position_histories	inserted_date	timestamp without time zone	
workers		staff_position_histories	inserted_user_id	text	
workers		staff_position_histories	staff_position_id	uuid	
workers		staff_position_histories	title	text	
workers		staff_position_histories	updated_date	timestamp without time zone	
workers		staff_position_histories	updated_user_id	text	
workers		staff_positions	contractor_id	uuid	
workers		staff_positions	deleted_date	timestamp without time zone	
workers		staff_positions	deleted_user_id	text	
workers	Штатные должности	staff_positions	id	uuid	PRIMARY KEY
workers		staff_positions	inserted_date	timestamp without time zone	
workers		staff_positions	inserted_user_id	text	
workers		staff_positions	updated_date	timestamp without time zone	
workers		staff_positions	updated_user_id	text	
workers		worker_histories	branch_title	text	
workers		worker_histories	card_code	text	
workers		worker_histories	contractor_id	uuid	
workers		worker_histories	deleted_date	timestamp without time zone	
workers		worker_histories	deleted_user_id	text	
workers		worker_histories	eds_password	text	
workers		worker_histories	employee_number	text	
workers		worker_histories	energy_security_group	text	
workers		worker_histories	external_id	text	
workers		worker_histories	full_name	text	
workers		worker_histories	health_date	timestamp without time zone	
workers		worker_histories	health_status	boolean	
workers	История изменений данных по сотрудникам	worker_histories	id	uuid	PRIMARY KEY
workers		worker_histories	inserted_date	timestamp without time zone	
workers		worker_histories	inserted_user_id	text	
workers		worker_histories	loto_number	text	
workers		worker_histories	profession_title	text	
workers		worker_histories	provision	double precision	
workers		worker_histories	seconded_company_title	text	
workers		worker_histories	test_rating	double precision	
workers		worker_histories	updated_date	timestamp without time zone	
workers		worker_histories	updated_user_id	text	
workers		worker_histories	worker_id	uuid	
workers		worker_histories	worker_lamproom_id	text	
workers		worker_histories	worker_type	integer	
workers		workers	contractor_id	uuid	
workers		workers	deleted_date	timestamp without time zone	
workers		workers	deleted_user_id	text	
workers	Сотрудники	workers	id	uuid	PRIMARY KEY
workers		workers	inserted_date	timestamp without time zone	
workers		workers	inserted_user_id	text	
workers		workers	updated_date	timestamp without time zone	
workers		workers	updated_user_id	text	

Подпись и дата

Инв. №дубл.

Взам. инв. №

Подпись и дата

Инв. №подл.

Схема данных	Назначение таблицы	Наименование таблицы	Наименование поля	Тип поля	Первичный ключ
workplaces		workplace_histories	contractor_id	uuid	
workplaces		workplace_histories	deleted_date	timestamp without time zone	
workplaces		workplace_histories	deleted_user_id	text	
workplaces		workplace_histories	equipment_brand	text	
workplaces		workplace_histories	equipment_number	text	
workplaces		workplace_histories	external_id	text	
workplaces	История изменений рабочих мест	workplace_histories	id	uuid	PRIMARY KEY
workplaces		workplace_histories	inserted_date	timestamp without time zone	
workplaces		workplace_histories	inserted_user_id	text	
workplaces		workplace_histories	integration_type	integer	
workplaces		workplace_histories	title	text	
workplaces		workplace_histories	updated_date	timestamp without time zone	
workplaces		workplace_histories	updated_user_id	text	
workplaces		workplace_histories	workplace_id	uuid	
workplaces		workplace_tech_position_histories	deleted_date	timestamp without time zone	
workplaces		workplace_tech_position_histories	deleted_user_id	text	
workplaces		workplace_tech_position_histories	external_id	text	
workplaces		workplace_tech_position_histories	id	uuid	PRIMARY KEY
workplaces		workplace_tech_position_histories	inserted_date	timestamp without time zone	
workplaces	История изменений технологических позиций рабочих мест	workplace_tech_position_histories	inserted_user_id	text	
workplaces		workplace_tech_position_histories	integration_type	integer	
workplaces		workplace_tech_position_histories	title	text	
workplaces		workplace_tech_position_histories	updated_date	timestamp without time zone	
workplaces		workplace_tech_position_histories	updated_user_id	text	
workplaces		workplace_tech_position_histories	workplace_id	uuid	
workplaces		workplace_tech_position_histories	workplace_tech_position_id	uuid	
workplaces		workplace_tech_positions	deleted_date	timestamp without time zone	
workplaces		workplace_tech_positions	deleted_user_id	text	
workplaces		workplace_tech_positions	id	uuid	PRIMARY KEY
workplaces		workplace_tech_positions	inserted_date	timestamp without time zone	
workplaces	Технологические позиции рабочих мест	workplace_tech_positions	inserted_user_id	text	
workplaces		workplace_tech_positions	task_item_workplace_id	uuid	
workplaces		workplace_tech_positions	updated_date	timestamp without time zone	
workplaces		workplace_tech_positions	updated_user_id	text	
workplaces		workplace_tech_positions	workplace_id	uuid	
workplaces		workplaces	contractor_id	uuid	
workplaces		workplaces	deleted_date	timestamp without time zone	
workplaces		workplaces	deleted_user_id	text	
workplaces		workplaces	id	uuid	PRIMARY KEY
workplaces	Рабочие места контрагента	workplaces	inserted_date	timestamp without time zone	
workplaces		workplaces	inserted_user_id	text	
workplaces		workplaces	updated_date	timestamp without time zone	
workplaces		workplaces	updated_user_id	text	

Лист регистрации изменений

Изм.	Номера листов (страниц)				Всего листов (стр.) в документе	№ документа	Входящий № сопроводительного документа	Под-пись	Дата
	изме-ненных	Заме-нен-ных	новых	Аннулиро-ванных					