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1 alerts

Column	Туре	Attributes	Null	Default	Extra	Links to	Comments	MIME
alert_id	int(11)		No		auto_increment			
location_id	int(11)		No			-> mine_locations.location_id ON UPDATE RESTRICT ON DELETE RESTRICT		
type_id	int(11)		No			-> alert_types.type_id ON UPDATE RESTRICT ON DELETE RESTRICT		
condition_id	int(11)		No			-> alert_conditions.condition_id ON UPDATE RESTRICT ON DELETE RESTRICT		
severity	tinyint(4)		No					
threshold_value	decimal(10, 2)		No					
measured_valu e	decimal(10, 2)		No					
start_time	datetime		No					
end_time	datetime		Yes	NULL				
is_active	tinyint(1)		Yes	1				
notes	text		Yes	NULL				_

2 alert_conditions

Column	Туре	Attributes	Null	Default	Extra	Links to	Comments	MIME
condition_id	int(11)		No		auto_increment			
type_id	int(11)		No			-> alert_types.type_id ON UPDATE RESTRICT ON DELETE RESTRICT		
condition_name	varchar(50)		No					
description	text		Yes	NULL				
measurement_u nit	varchar(20)		Yes	NULL				

3 alert_responses

Column	Туре	Attributes	Null	Default	Extra	Links to	Comments	MIME
response_id	int(11)		No		auto_increment			
alert_id	int(11)		No			-> alerts.alert_id ON UPDATE RESTRICT ON DELETE RESTRICT		
response_type	enum('Auto matic', 'Manual', 'System', 'M aintenance')		No					
response_time	datetime		No					
responding_cre	varchar(100		No					
w)							
notes	text		Yes	NULL				

4 alert_types

Column	Туре	Attributes	Null	Default	Extra	Links to	Comments	MIME
type_id	int(11)		No		auto_increment			
type_name	varchar(50)		No					
description	text		Yes	NULL				
severity_thresh olds	longtext		Yes	NULL				

5 mine_locations

Column	Туре	Attributes	Null	Default	Extra	Links to	Comments	MIME
location_id	int(11)		No		auto_increment			
mine_name	varchar(100		No					
level_number	int(11)		No					
section_name	varchar(100)		No					
coordinates	varchar(100		Yes	NULL				
depth	decimal(10, 2)		Yes	NULL				
ventilation_zon e	varchar(50)		Yes	NULL				
is_active	tinyint(1)		Yes	1				
created_at	datetime		No					
updated_at	datetime		No					

6 sensor_data

Column	Туре	Attributes	Null	Default	Extra	Links to	Comments	MIME
id	int(11)		No		auto_increment			
reading_time	datetime		No					
location_id	int(11)		No			-> mine_locations.location_id ON UPDATE RESTRICT ON DELETE RESTRICT		
temperature	decimal(5,2)		Yes	NULL				
humidity	decimal(5,2)		Yes	NULL				
co2_ppm	decimal(8,2)		Yes	NULL				
pm1_ugm3	decimal(8,2)		Yes	NULL				
pm25_ugm3	decimal(8,2)		Yes	NULL				
pm10_ugm3	decimal(8,2)		Yes	NULL				
no2_ppm	decimal(8,2)		Yes	NULL				
nh3_ppm	decimal(8,2)		Yes	NULL				
co_ppm	decimal(8,2)		Yes	NULL				
methane_perce nt	decimal(5,2)		Yes	NULL				
oxygen_percent	decimal(5,2)		Yes	NULL				
h2s_ppm	decimal(8,2)		Yes	NULL				
airflow_ms	decimal(5,2)		Yes	NULL				

