

prices	
date	date
oil_price_usd_bbl	decimal(10,2)
gas_price_usd_mcf	decimal(10,2)
water_disposal_cost_usd_bbl	decimal(10,2)

sensor_readings	
sensor_id	varchar(50)
well_id	varchar(50)
timestamp	datetime
pressure_psi	decimal(10,2)
temperature_c	decimal(5,2)
vibration_g	decimal(8,4)

fields	
field_id	varchar(50)
name	varchar(100)
country	varchar(50)
region	varchar(100)
discovery_date	date
operator	varchar(100)
total_reserves_est_bbl	bigint
development_stage	varchar(50)

rigs	
rig_id	varchar(50)
type	varchar(50)
contractor	varchar(100)
capacity_unit	varchar(50)
capacity	int
status	varchar(50)
last_inspection_date	date

wells	
well_id	varchar(50)
field_id	varchar(50)
well_type	varchar(50)
spud_date	date
completion_date	date
status	varchar(50)
depth_m	decimal(10,2)
location_lat	decimal(9,6)
location_lon	decimal(9,6)

drilling_events	
well_id	varchar(50)
rig_id	varchar(50)
event_type	varchar(50)
start_date	date
end_date	date

maintenance_logs	
well_id	varchar(50)
event_date	date
activity	varchar(255)
technician	varchar(100)
duration_hrs	decimal(6,2)
cost_usd	decimal(10,2)

production_logs	
well_id	varchar(50)
date	date
oil_bbl	decimal(10,2)
gas_mcf	decimal(10,2)
water_bbl	decimal(10,2)
choke_size	decimal(5,2)
tubing_pressure_psi	decimal(10,2)

transport_logs	
shipment_id	varchar(50)
well_id	varchar(50)
date	date
quantity_bbl	decimal(10,2)
destination	varchar(100)
transporter	varchar(100)
status	varchar(50)

equipment_failures	
equipment_id	varchar(50)
well_id	varchar(50)
failure_type	varchar(100)
failure_date	date
downtime_hrs	decimal(8,2)
severity	varchar(50)
repair_cost_usd	decimal(10,2)
response_time_hrs	decimal(8,2)

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