

Relational Database Schema

Ships (imo_number, name, flag_country, producer, cargo_capacity, crew_capacity, ownership_status)

MaintenanceEvents (id, ship_number REF Ships, cause, start, end, status)

CrewMembers (id, name, surname, country_id REF Countries, date_of_birth, contract_termination, rank)

Cruises (id, ship_number REF Ships, crew_id REF CrewMembers, waterbody_id REF Waterbodies, etd, eta, atd, ata, status)

Incidents (id, cruise_id REF Cruises, cause, start, end, delay, severity)

PortCalls (cruise_id REF Cruises, seq_no, port_code REF Ports, etd, eta, atd, ata, status)

Cargo (id, order_id REF Orders, cruise_id, load_seqno, discharge_seqno, planned_weight, transported_weight, status)

(cruise_id, load_seqno) REF PortCalls

(cruise_id, discharge_seqno) REF PortCalls

Orders (id, client_code REF Clients, origin_port_code REF Ports, dest_port_code REF Ports, status)

Clients (client_code, name, billing_address, contract_valid_from, contract_valid_to)

Ports (un_locode, waterbody_id REF Waterbodies, country_id REF Countries, name)

Waterbodies (id, country_id REF Countries, name, navarea, kind)

Countries (id, continent, name, area, population)