Flight Booking DWH Schema
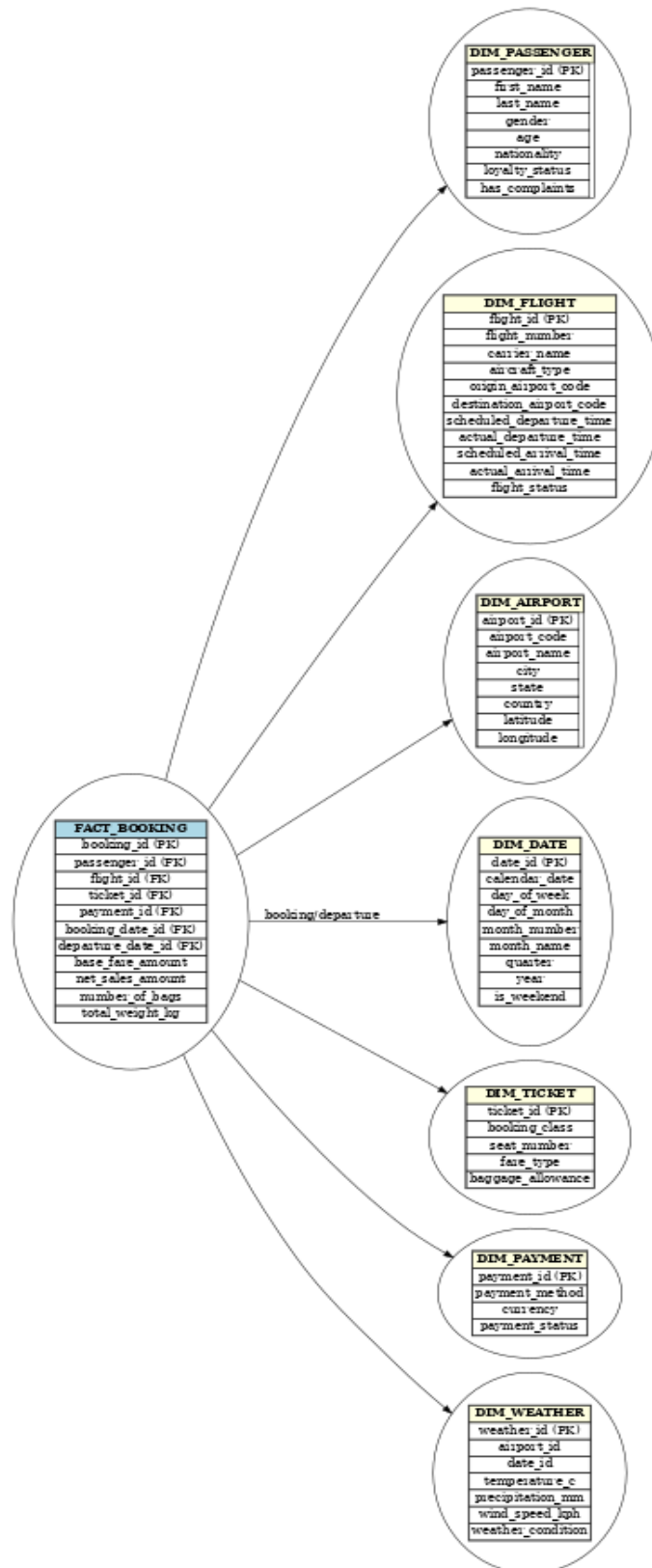
DIM_PASSENGER
- passenger_id (PK)
- first_name
- last_name
- gender
- age
- nationality
- loyalty_status
- has_complaints

DIM_FLIGHT
- flight_id (PK)
- flight_number
- carrier_name
- aircraft_type
- origin_airport_code
- destination_airport_code
- scheduled_departure_time
- actual_departure_time
- scheduled_arrival_time
- actual_arrival_time
- flight_status

DIM_AIRPORT
- airport_id (PK)
- airport_code
- airport_name
- city
- state
- country
- latitude
- longitude

FACT_BOOKING
- booking_id (PK)
- passenger_id (FK)
- flight_id (FK)
- ticket_id (FK)
- payment_id (FK)
- booking_date_id (FK)
- departure_date_id (FK)
- base_fare_amount
- net_sales_amount
- number_of_bags
- total_weight_kg

booking/departure

DIM_DATE
- date_id (PK)
- calendar_date
- day_of_week
- day_of_month
- month_number
- month_name
- quarter
- year
- is_weekend

DIM_TICKET
- ticket_id (PK)
- booking_class
- seat_number
- fare_type
- baggage_allowance

DIM_PAYMENT
- payment_id (PK)
- payment_method
- currency
- payment_status

DIM_WEATHER
- weather_id (PK)
- airport_id
- date_id
- temperature_c
- precipitation_mm
- wind_speed_kph
- weather_condition

Dimensions

DIM_PASSENGER
- **passenger_id** (PK)
- first_name
- last_name
- gender
- age
- nationality
- loyalty_status (e.g., Silver, Gold)
- has_complaints (boolean)

DIM_FLIGHT
- **flight_id (PK)**
- flight_number
- carrier_name
- aircraft_type
- origin_airport_code
- destination_airport_code
- scheduled_departure_time
- actual_departure_time
- scheduled_arrival_time
- actual_arrival_time
- flight_status (on-time, delayed, cancelled, diverted)

DIM_AIRPORT
- **airport_id** (PK)
- airport_code (IATA/ICAO)
- airport_name
- city
- state
- country
- latitude
- longitude

DIM_DATE
- **date_id** (PK)
- calendar_date
- day_of_week
- day_of_month
- month_number
- month_name
- quarter
- year
- is_weekend

DIM_TICKET
- **ticket_id** (PK)
- booking_class (Economy, Business, First)
- seat_number
- fare_type (Refundable, Non-refundable, Promo)
- baggage_allowance

DIM_PAYMENT
- **payment_id** (PK)
- payment_method (Credit Card, PayPal, Cash)
- currency
- payment_status (Completed, Pending, Refunded)

DIM_WEATHER *(Optional, but recommended if you want weather impact analysis)*
- **weather_id** (PK)
- airport_id
- date_id
- temperature_c
- precipitation_mm
- wind_speed_kph
- weather_condition
- weather_condition

Fact Table

FACT_BOOKING
- booking_id (PK)
- passenger_id (FK)
- flight_id (FK)
- ticket_id (FK)
- payment_id (FK)
- booking_date_id (FK)
- departure_date_id (FK)
- base_fare_amount
- net_sales_amount
- number_of_bags
- total_weight_kg