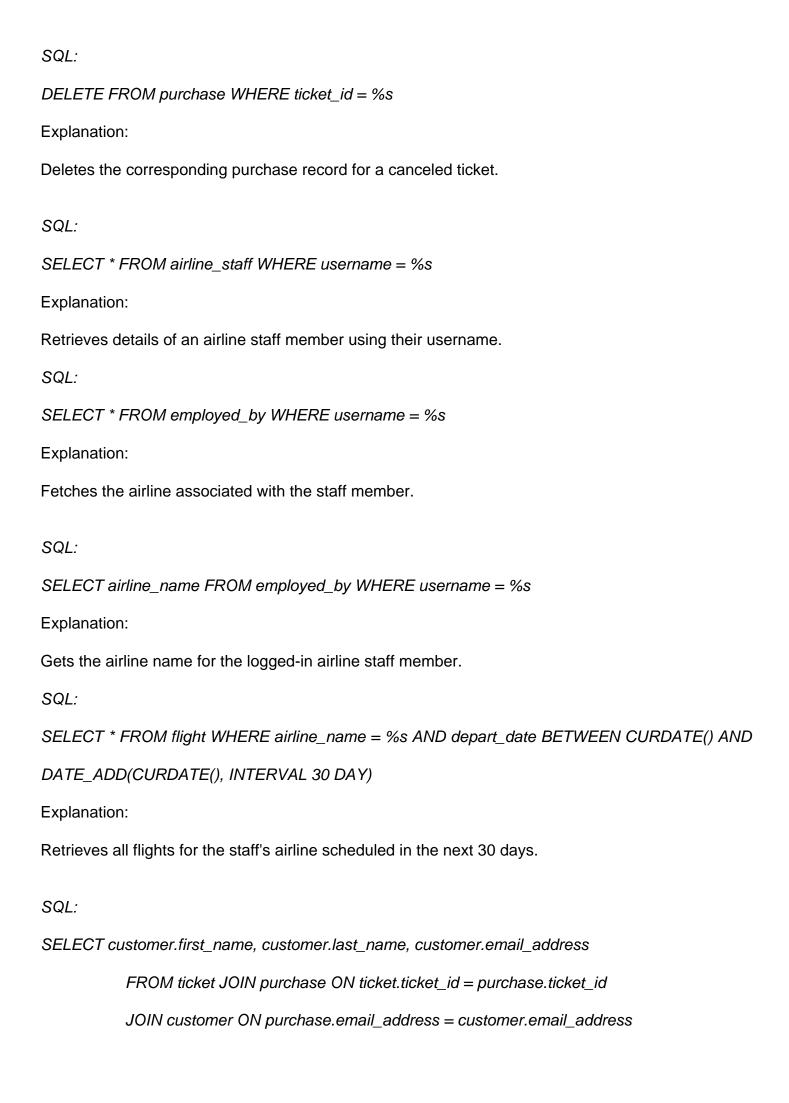
SQL Queries and Explanations

SQL:
SELECT f.airline_name, f.flight_number, f.depart_date, f.depart_time, f.arrival_date, f.arrival_time
FROM flight f
WHERE f.depart_date BETWEEN CURDATE() AND DATE_ADD(CURDATE(),
INTERVAL 30 DAY)
Explanation:
Retrieves details about flights, including airline, flight number, departure, and arrival times, for the
next 30 days.
SQL:
SELECT airline_name, flight_number, depart_date, arrival_date, flight_status
FROM flight
WHERE flight_number = %s AND depart_date = %s
Explanation:
Checks the current status of a specific flight, including its schedule and status.
SQL:
SELECT * FROM customer WHERE email_address = %s
Explanation:
Authenticates a customer by matching their email address with stored records.
SQL:
SELECT * FROM airline_staff WHERE username = %s
Explanation:
Authenticates an airline staff member using their username.

SQL:

SELECT * FROM Airline_Staff WHERE username = %s
Explanation:
Checks if an airline staff member exists in the system.
SQL:
SELECT * FROM customer WHERE email_address = %s
Explanation:
Checks if a customer exists in the database using their email address.
SQL:
SELECT base_price FROM flight WHERE flight_number = %s
Explanation:
Retrieves the base price of a flight ticket for a given flight number.
SQL:
INSERT INTO ticket (ticket_id, airline_name, flight_number, depart_date, depart_time,
calculated_price, first_name, last_name, date_of_birth)
Explanation:
Inserts a new ticket into the database with details like passenger name, date of birth, and calculated
price.
SQL:
SELECT * FROM ticket WHERE ticket_id = %s
Explanation:
Checks if a specific ticket exists before cancellation.
SQL:
DELETE FROM ticket WHERE ticket_id = %s
Explanation:
Deletes a ticket record from the database.



INSERT INTO Airplane VALUES (%s, %s, NULL, %s, %s, %s, %s, %s)

INSERT INTO Maintenance VALUES (%s, %s, %s, %s, %s)

Adds a new airplane to the database, specifying airline, seat capacity, and manufacturing details.

Explanation:

SQL:

Explanation:

Schedules maintenance for an airplane with start and end dates and times.

SQL:

UPDATE Airplane SET maintenance_id = %s WHERE airline_name = %s AND airplane_id_number = %s

Explanation:

Links a maintenance record to a specific airplane.

SQL:

SELECT f.flight_number, f.depart_date, f.depart_time, COALESCE(AVG(r.rating), 0) AS average_rating, GROUP_CONCAT(r.comment) AS comments

FROM flight f

LEFT JOIN reviews r ON f.flight_number = r.flight_number

GROUP BY f.flight_number, f.depart_date, f.depart_time

Explanation:

Retrieves average ratings and comments for flights.