

23BAI0220

Daksh Goel

# AIRPORT-MANAGEMENT-DB REPORT

## VIEW WINDOW STATUS

Query 1:

```
-- VIEW / SEARCH MENU --
1. View all Upcoming Flights
2. View Passenger Details of a Flight
3. View Crew Members of a Flight
4. View Booking details
100. Back to Main Menu
Enter your choice: 1

=====
UPCOMING FLIGHTS
=====

Showing next 1 flights

Flight      Date      Departure  Route      Status
-----
BABA400     2025-10-27  20:15     LHR → JFK   Scheduled

Total: 1 flights
```

Query 2:

```
-- VIEW / SEARCH MENU --
1. View all Upcoming Flights
2. View Passenger Details of a Flight
3. View Crew Members of a Flight
4. View Booking details
100. Back to Main Menu
Enter your choice: 2

=====
FLIGHT PASSENGER MANIFEST
=====

Flight Number: EK400
Flight Date (YYYY-MM-DD): 2024-12-21

=====
FLIGHT: EKEK400 | DXB → SIN
DATE: 2024-12-21 | STATUS: Boarding
=====
TOTAL PASSENGERS: 2 | CHECKED IN: 0
=====

Seat  Passenger      Nationality  Class      Status
-----
5C    Ahmed Al-Rashid   United Arab Emirates Business  Pending
7A    Sophie Dubois     France      Business   Pending

=====
CLASS BREAKDOWN:
Business: 2 passenger(s)
=====
```

Query 3:

```
-- VIEW / SEARCH MENU --
1. View all Upcoming Flights
2. View Passenger Details of a Flight
3. View Crew Members of a Flight
4. View Booking details
100. Back to Main Menu
Enter your choice: 3

=====
VIEW FLIGHT CREW
=====
Flight Number: AA100
Flight Date (YYYY-MM-DD): 2024-12-20

=====
CREW ROSTER - Flight AA100 on 2024-12-20
=====
1. Michael Brown           [Captain]
2. Lisa Anderson           [First_Officer]
3. Emily Davis             [Flight_Attendant]
=====
Total Crew Members: 3
=====
```

Query 4:

```
=====
VIEW BOOKING DETAILS
=====
Booking ID: BK002

=====
BOOKING INFORMATION
=====
Booking ID:      BK002
Booking Reference: DL4E5F6G
Booking Date:    2024-11-18 09:45:00
Status:          Confirmed
Payment:          Paid
Total Amount:    $1,250.00 EUR
Travel Agent:    Global Travel Services

=====
PASSENGER INFORMATION
=====
Name:            Maria Garcia
Passenger ID:    PAX002
Email:           maria.garcia@email.com
Phone:           +34-666-1002
Passport:        ES987654321

=====
TICKETS (1)
=====
Ticket 1: TK002
Flight:          DLDL200 on 2024-12-21
Airline:         Delta Air Lines
Route:           ATL → LHR
Departure:       2024-12-21 18:45:00
Arrival:         2024-12-22 07:15:00
Class:           Business
Seat:            3D
Fare:            $1,250.00
Baggage:         32 kg
Status:          Ticket: Active | Flight: Scheduled | Check-in: Checked_In
Requests:        Vegetarian meal

=====
Total Fare: $1,250.00
=====
```

# INSERT WINDOW STATUS

Query 5:

```
-- INSERT MENU --
1. Insert a New Ticket
2. Insert a New Flight
3. Insert a New Employee
100. Back to Main Menu
Enter your choice: 1

=====
CREATE NEW TICKET
=====

BOOKING SELECTION

1. Create new booking
2. Add to existing booking

Select option (1 or 2): 1

Booking ID (e.g., BK013): BK013
Passenger ID: PAX001

Passenger: David Thompson
Email: david.thompson@email.com

Booking Reference (6-8 chars): A1B2C3
Total Booking Amount: $450

Booking BK013 created successfully.

=====
FLIGHT INFORMATION
=====

Flight Number: AA102
Flight Date (YYYY-MM-DD): 2024-12-22

Flight: AAAA102 - American Airlines
Route: ORD → LAX
Date: 2024-12-22
Status: Scheduled
Booked: 2 seats

=====
TICKET DETAILS
=====

Ticket ID (e.g., TK013): TK013
Seat Number (e.g., 12A): 30A

CLASS:
1. Economy
2. Premium Economy
3. Business
4. First

Select (1-4): 1
Fare Amount: $450
Baggage Allowance (kg): 23
Special Requests (optional, press Enter to skip):

=====
CONFIRM TICKET BOOKING
=====

Ticket ID: TK013
Booking: BK013
Passenger: PAX001
Flight: AA102 on 2024-12-22
Route: ORD → LAX
Seat: 30A
Class: Economy
Fare: $450.00
Baggage: 23 kg

=====
Type 'CONFIRM' to create ticket or press Enter to cancel: CONFIRM

=====
TICKET CREATED SUCCESSFULLY
=====

Ticket ID: TK013
Flight: AA102 on 2024-12-22
Seat: 30A
Class: Economy
Fare: $450.00
```



Query 6:

```
-- INSERT MENU --
1. Insert a New Ticket
2. Insert a New Flight
3. Insert a New Employee
100. Back to Main Menu
Enter your choice: 2

=====
ADD NEW FLIGHT
=====

AVAILABLE AIRLINES:
=====
AA001 American Airlines (AA)
BA001 British Airways (BA)
DL001 Delta Air Lines (DL)
EK001 Emirates (EK)
LH001 Lufthansa (LH)
QR001 Qatar Airways (QR)
SQ001 Singapore Airlines (SQ)
UA001 United Airlines (UA)
=====

Airline ID: AA001
Flight Number: AA100
Flight Date (YYYY-MM-DD): 2024-12-20
Flight AA100 already exists on 2024-12-20.
```

Query 7:

```
-- INSERT MENU --
1. Insert a New Ticket
2. Insert a New Flight
3. Insert a New Employee
100. Back to Main Menu
Enter your choice: 3

=====
ADD NEW EMPLOYEE
=====

Employee ID (e.g., EMP019): EMP019
First Name: DAKSH
Last Name: GOEL
Email: goel@example.com
Phone: 90392948394
Date of Birth (YYYY-MM-DD): 1890-2-2
Hire Date (YYYY-MM-DD): 2025-10-26

EMPLOYMENT TYPE:
1. Airport Employee
2. Airline Employee

Select (1 or 2): 1

=====
AVAILABLE AIRPORTS:
=====
CDG Charles de Gaulle Airport (Paris)
DXB Dubai International Airport (Dubai)
FRA Frankfurt Airport (Frankfurt)
ATL Hartsfield-Jackson Atlanta International Airport (Atlanta)
JFK John F. Kennedy International Airport (New York)
LHR London Heathrow Airport (London)
LAX Los Angeles International Airport (Los Angeles)
NRT Narita International Airport (Tokyo)
ORD O'Hare International Airport (Chicago)
SIN Singapore Changi Airport (Singapore)
=====

Airport Code: cdg

Department: Security
Position: Security Officer
```

Department: Security  
Position: Security Officer  
Annual Salary: \$40000  
Supervisor ID (optional, press Enter to skip):

=====

CONFIRM NEW EMPLOYEE

=====

ID: EMP019  
Name: DAKSH GOEL  
Email: goel@example.com  
Phone: 90392948394  
DOB: 1890-2-2  
Hire Date: 2025-10-26  
Location: CDG  
Department: Security  
Position: Security Officer  
Salary: \$40,000.00  
Supervisor: None

=====

Type 'CONFIRM' to add employee or press Enter to cancel: CONFIRM

=====

SUCCESS: Employee EMP019 added successfully

=====

Press Enter to continue...

# UPDATE WINDOW STATUS

Query 8:

```
-- UPDATE MENU --
1. Update Flight Status
2. Update Salaries by Position
100. Back to Main Menu
Enter your choice: 1

=====
UPDATE FLIGHT STATUS
=====

Flight Number: DL200
Flight Date (YYYY-MM-DD): 2024-12-21

=====
CURRENT FLIGHT STATUS
=====

Flight:      DL200
Date:        2024-12-21
Airline:     Delta Air Lines
Route:       ATL → LHR
Status:      Scheduled

=====
NEW STATUS:
1. Scheduled
2. Delayed
3. Boarding
4. Departed
5. In Flight
6. Arrived
7. Cancelled

Select status (1-7): 2
Delay duration (minutes): 100

=====
CONFIRM STATUS UPDATE
=====

Flight:      DL200
Date:        2024-12-21
Current:     Scheduled
New Status:  Delayed
Delay:       100 minutes
=====
```

```
Type 'CONFIRM' to update or press Enter to cancel: CONFIRM

=====
STATUS UPDATED
=====

Flight:      DL200
New Status:  Delayed
Delay:       100 minutes

=====
ACTION REQUIRED:
- Notify passengers of delay
- Update departure boards
=====
```

### Query 9:

```
-- UPDATE MENU --
1. Update Flight Status
2. Update Salaries by Position
100. Back to Main Menu
Enter your choice: 2

=====
UPDATE SALARIES BY POSITION
=====

AVAILABLE POSITIONS:
=====
#      Position              Employees  Current Avg Salary
=====
1      Air Traffic Controller      1      $72,000.00
2      Aircraft Technician         1      $72,000.00
3      Airport Manager             1      $95,000.00
4      Captain                     2      $131,500.00
5      Chief Pilot                  1      $125,000.00
6      Customer Service Manager     1      $68,000.00
7      First Officer                1      $85,000.00
8      Flight Attendant             3      $47,666.67
9      Ground Crew Supervisor       1      $62,000.00
10     Ramp Supervisor             1      $58,000.00
11     Security Officer            1      $40,000.00
12     Security Supervisor         1      $65,000.00
13     Senior Flight Attendant      1      $58,000.00
14     Senior Travel Agent         1      $55,000.00
15     Travel Agent                1      $48,000.00
=====

Select position (1-15): 7

=====
POSITION SALARY UPDATE
=====

Position:      First Officer
Affected Employees: 1
Current Avg Salary: $85,000.00

New Salary: $50000

New Salary:      $50,000.00
Change:          41.2% decrease
=====
```

# DELETE WINDOW STATUS

Query 10:

```
-- DELETE / CANCEL MENU --
1. Fire an Employee
2. Cancel a Passenger's Ticket
3. Cancel a Flight
100. Back to Main Menu
Enter your choice: 1

=====
EMPLOYEE TERMINATION
=====

Employee ID: EMP014

=====
EMPLOYEE INFORMATION
=====
ID: EMP014
Name: Marie Leclerc
Position: Security Officer
Department: Security
Location: Paris
Hire Date: 2021-06-12
Service: 4 years (1597 days)
Salary: $45,000.00
Status: Active

=====
TERMINATION REASON:
1. Resignation
2. Retirement
3. Performance Issues
4. Misconduct
5. Position Elimination
6. Contract Completion
7. Other

Select reason (1-7): 7
Enter reason: DUNNO

=====
CONFIRM TERMINATION
=====
Employee: Marie Leclerc (EMP014)
Position: Security Officer
Reason: DUNNO

=====

CONFIRM TERMINATION
=====
Employee: Marie Leclerc (EMP014)
Position: Security Officer
Reason: DUNNO

=====
Type 'CONFIRM' to proceed or press Enter to cancel: CONFIRM

=====
TERMINATION COMPLETED
=====
Employee: Marie Leclerc
ID: EMP014
Position: Security Officer
Service: 4 years
Final Salary: $45,000.00
Reason: DUNNO

=====
REQUIRED ACTIONS:
- Process final paycheck and benefits
- Collect company property
- Revoke system access

=====
Press Enter to continue...
```



## Query 11:

```
-- DELETE / CANCEL MENU --
1. Fire an Employee
2. Cancel a Passenger's Ticket
3. Cancel a Flight
100. Back to Main Menu
Enter your choice: 2

=====
CANCEL TICKET
=====

Ticket ID: TK007

=====
TICKET DETAILS
=====

Ticket ID:    TK007
Passenger:    James Wilson (PAX007)
Flight:       AA102 on 2024-12-22
Airline:      American Airlines
Route:        ORD → LAX
Class:        Economy
Seat:         25C
Fare:         $425.00
Status:       Active
Check-in:     Not_Checked_In

=====
CANCELLATION REASON:
1. Customer Request
2. Flight Cancelled
3. Schedule Change
4. Medical Emergency
5. Other

Select reason (1-5): 1

=====
CONFIRM TICKET CANCELLATION
=====

Ticket:       TK007
Passenger:    James Wilson
Flight:       AA102 on 2024-12-22
Fare:         $425.00
Reason:       Customer Request

Type 'CONFIRM' to cancel ticket or press Enter to abort: CONFIRM

=====
TICKET CANCELLED
=====

Ticket ID:    TK007
Passenger:    James Wilson
Reason:       Customer Request

=====
NEXT STEPS:
- Process refund according to fare rules
- Send cancellation confirmation to passenger
- Release seat for rebooking
=====
```

Query 12:

```
-- DELETE / CANCEL MENU --
1. Fire an Employee
2. Cancel a Passenger's Ticket
3. Cancel a Flight
100. Back to Main Menu
Enter your choice: 3

=====
CANCEL FLIGHT
=====

Flight Number: UA200
Flight Date (YYYY-MM-DD): 2024-12-23

=====
FLIGHT DETAILS
=====

Flight:    UA200
Date:      2024-12-23
Airline:   United Airlines
Route:     ORD → NRT
Departure: 2024-12-23 13:45:00
Status:    Scheduled

=====

CANCELLATION REASON:
 1. Weather Conditions
 2. Technical Issues
 3. Crew Unavailability
 4. Low Bookings
 5. Airport Closure
 6. Other

Select reason (1-6): 1

=====
CONFIRM CANCELLATION
=====

Flight: UA200 on 2024-12-23
Route:  ORD → NRT
Reason: Weather Conditions

=====

Type 'CONFIRM' to cancel flight or press Enter to abort: CONFIRM
```

```
=====
FLIGHT CANCELLED
=====

Flight:  UA200
Date:    2024-12-23
Reason:  Weather Conditions

=====
REQUIRED ACTIONS:
- Notify all passengers
- Process refunds/rebookings
- Notify crew members
- Update gate assignments
=====
```

# SEARCH WINDOW STATUS

Query 13:

```
-- SEARCH MENU --
1. Search Flight by ID
2. Search Passenger by Name
3. Search for an Employee's Details
4. Search for cheapest flights for your route
100. Back to Main Menu
Enter your choice: 1

=====
FLIGHT SEARCH
=====

Flight Number: AA100
Flight Date (YYYY-MM-DD, optional - press Enter to skip): 2024-12-20

=====
SEARCH RESULTS: 1 flight(s) found
=====
Flight:      AAAA100 - American Airlines
Date:       2024-12-20
Route:      John F. Kennedy International Airport (JFK, New York)
            → Los Angeles International Airport (LAX, Los Angeles)
Departure:  2024-12-20 08:00:00
Arrival:    2024-12-20 11:30:00
Aircraft:   Boeing 737-800 (N801AA)
Status:     Arrived - Delayed 15 min
Gate:       A12 (Terminal 4)
=====
```

Query 14:

```
-- SEARCH MENU --
1. Search Flight by ID
2. Search Passenger by Name
3. Search for an Employee's Details
4. Search for cheapest flights for your route
100. Back to Main Menu
Enter your choice: 2

=====
PASSENGER SEARCH
=====

Tip: You can search using partial names (e.g., 'John' or 'Sm')

Passenger Name (first or last): SON

=====
SEARCH RESULTS: 3 passenger(s) found for 'SON'
=====

1. Linda Johnson (ID: PAX010)
   DOB: 1988-03-22 | Nationality: United States
   Email: linda.johnson@email.com | Phone: +1-555-1010
   Passport: US456123789 (Expires: 2027-03-22)
   Frequent Flyer: DL33445566
   Bookings: 1 total, 1 active | Last flight: 2024-12-21

2. David Thompson (ID: PAX001)
   DOB: 1975-05-12 | Nationality: United States
   Email: david.thompson@email.com | Phone: +1-555-1001
   Passport: US123456789 (Expires: 2027-05-12)
   Frequent Flyer: AA12345678
   Bookings: 2 total, 1 active | Last flight: 2024-12-22

3. James Wilson (ID: PAX007)
   DOB: 1992-04-09 | Nationality: United Kingdom
   Email: james.wilson@email.com | Phone: +44-20-1007
   Passport: GB147258369 (Expires: 2029-04-09)
   Frequent Flyer: QR77889900
   Bookings: 1 total, 0 active | Last flight: 2024-12-22
```

### Query 15:

```
-- SEARCH MENU --
1. Search Flight by ID
2. Search Passenger by Name
3. Search for an Employee's Details
4. Search for cheapest flights for your route
100. Back to Main Menu
Enter your choice: 3

=====
EMPLOYEE SEARCH
=====

Employee ID: EMP001

=====
EMPLOYEE DETAILS
=====

ID:      EMP001
Name:    John Smith
Position: Airport Manager
Department: Operations
Location: New York
Email:   john.smith@jfkairport.com
Phone:   +1-555-0101
Hire Date: 2015-06-01 (10 years)
Salary:  $95,000.00
Status:  Active
=====
```

### Query 16:

```
-- SEARCH MENU --
1. Search Flight by ID
2. Search Passenger by Name
3. Search for an Employee's Details
4. Search for cheapest flights for your route
100. Back to Main Menu
Enter your choice: 4

=====
FIND CHEAPEST FLIGHTS
=====

Source Airport Code (e.g., JFK): JFK
Destination Airport Code (e.g., LAX): LAX
Flight Date (YYYY-MM-DD): 2024-12-20

No available flights found for JFK → LAX on 2024-12-20
Try searching for a different date.
```



## REPORTS WINDOW STATUS

Query 17:

```
-- REPORTS MENU --
1. Get Flight Duration
2. Occupancy vs. Price Report
3. Average Ticket Price on a Route
4. Generate Flight Revenue report
5. View Flight Status Change Log
100. Back to Main Menu
Enter your choice: 1

=== FLIGHT DURATION LOOKUP ===
Enter Flight Number: DL200
Enter Flight Date (YYYY-MM-DD): 2024-12-21

-----
FLIGHT DURATION
-----
Flight Number : DL200
Flight Date   : 2024-12-21
Duration      : 12 hour(s) 30 minute(s)
-----
```

Query 18:

```
-- REPORTS MENU --
1. Get Flight Duration
2. Occupancy vs. Price Report
3. Average Ticket Price on a Route
4. Generate Flight Revenue report
5. View Flight Status Change Log
100. Back to Main Menu
Enter your choice: 2

=== OCCUPANCY AND PRICE REPORT ===
Enter Flight Number: LH500
Enter Flight Date (YYYY-MM-DD): 2024-12-22

=====
FLIGHT: LH500    DATE: 2024-12-22
=====
Class           : First
Passengers      : 2
Avg Fare        : $1675.00
=====
```

### Query 19:

```
-- REPORTS MENU --
1. Get Flight Duration
2. Occupancy vs. Price Report
3. Average Ticket Price on a Route
4. Generate Flight Revenue report
5. View Flight Status Change Log
100. Back to Main Menu
Enter your choice: 3

=== AVERAGE TICKET PRICE ON ROUTE ===
Enter Source Airport Code: ATL
Enter Destination Airport Code: LHR

=====
AVERAGE TICKET PRICE
=====
Route : ATL → LHR
Price : $950.38
=====
```

### Query 20:

```
-- REPORTS MENU --
1. Get Flight Duration
2. Occupancy vs. Price Report
3. Average Ticket Price on a Route
4. Generate Flight Revenue report
5. View Flight Status Change Log
100. Back to Main Menu
Enter your choice: 4

=== FLIGHT REVENUE REPORT ===
Enter Flight Number: LH500
Enter Flight Date (YYYY-MM-DD): 2024-12-22

=====
REVENUE SUMMARY
=====
Flight Number : LH500
Flight Date   : 2024-12-22
Tickets Sold  : 2
Total Revenue : $3,350.00
Profit Status : Under Target
=====
```

### Query 21:

```
-- REPORTS MENU --
1. Get Flight Duration
2. Occupancy vs. Price Report
3. Average Ticket Price on a Route
4. Generate Flight Revenue report
5. View Flight Status Change Log
100. Back to Main Menu
Enter your choice: 5

=== FLIGHT STATUS CHANGE LOG ===
Enter Flight Number: DL200
Enter Flight Date (YYYY-MM-DD): 2024-12-21

=====
STATUS LOGS FOR DL200 ON 2024-12-21
=====
Timestamp   : 2025-10-26 21:56:37
Old Status  : Scheduled
New Status   : Delayed
Reason      : Status updated via system.
Changed By   : root@localhost
=====

Press Enter to continue...
```