SQL Scenarios

Between, Like, IN, Max/Min, Average, Order By, Group By, Distinct, Not Null, >, <, <=, >=, =, Describe, AND, OR

1. **Write a query to generate a list of passengers that are Pakistani.**

Select Ps\_ID, Name from Passenger where Nationality='Pakistani';

1. **Write a query to display departures between 9 AM to 11 AM.**

Select \* from FlightSchedule where Departure between '09:00:00' AND '11:00:00';

1. **Write a query to display a list of passengers with first letter ‘M’.**

Select Name from Passenger where Name like 'M%';

1. **Write a query to display a list of employees with last letter ‘S’.**

Select Name from Employee where Name like '%S';

1. **Create a query to output employee names in branches 1214, 1358, 1456.**

Select Name from Employee where BrID in(1214, 1358, 1456);

1. **Create a query to display the maximum number of branches in a country.**

Select Max(No\_of\_branches) from AirLine;

1. **Create a query to display the minimum number of branches in a country.**

Select Min(No\_of\_branches) from AirLine;

1. **Write a query to generate the list of scheduled flights ordered by date.**

Select Flight\_ID, FlightDate from FlightSchedule order by FlightDate;

1. **Write a query to generate list of unique manufacturing date of aircrafts.**

Select DISTINCT MfdOn from AirCraft;

1. **Create a query to display list of flight statuses that are not null.**

Select \* from Flight\_Status where F\_Status is not null;

1. **Create a query to display average fares paid by passengers.**

Select AVG(Fare) from AirFare;

1. **Write a query to output all passengers paying fare greater than 70000.**

Select Ps\_ID from AirFare where Fare>70000;

1. **Write a query to output all passengers paying net fare less than 2000.**

Select Ps\_ID, Net\_Fare from Net\_Fare where Net\_Fare<2000;

1. **Create a query to display aircrafts either having seating capacity 300 or manufactured by American Airlines.**

Select AcID from AirCraft where Capacity=300 or MfdBy='American Airlines';

1. **Create a query to display the flights where source is Lahore and destination is Karachi.**

Select AcID from Route where City\_name='Lahore' and Destination='Karachi';

1. **Write a query to generate a list of distinct fares paid by the passengers.**

Select DISTINCT Fare from AirFare;

1. **Write a query to display flights order by arrival.**

Select Flight\_ID, Departure from FlightSchedule order by Arrival;

1. **Create a query to display list of passengers who booked flight on 20 Dec 2016.**

Select Ps\_ID from BookingDate where BookingDate = ‘2016-12-20’;

1. **Create a query to display the list of passengers paying fares group by passengerID.**

Select Ps\_ID, Max(Fare) as amount\_payable from AirFare group by Ps\_ID;