

Query

Simple query(aggregation).

1. Display available flight from NEW YORK to DELHI.

```
select * from flight where to0='DELHI' and fromm='NEW YORK';
```

```
AirlineReservation=# select * from flight where to0='DELHI' and fromm='NEW YORK';
flight_no | fromm | to0 | class | Departure_date | Arrival_date | no_passenger
-----+-----+-----+-----+-----+-----+-----
      672015 | NEW YORK | DELHI | A | 2021-09-30 | 2021-09-30 | 150
      223556 | NEW YORK | DELHI | A | 2021-11-02 | 2021-11-02 | 120
(2 rows)

AirlineReservation=#
```

2. Count How many flight is in month '10'.

```
select COUNT(*) Number_Of_Flights from Flight where EXTRACT(MONTH FROM
departure_date)='10';
```

```
AirlineReservation=# select COUNT(*) Number_Of_Flights from Flight where EXTRACT(MONTH FROM departure_date)='10';
number_of_flights
-----
              11
(1 row)

AirlineReservation=#
```

3. Display total amount where payment is done by debit card;

```
select sum(price) as debit_total from ticket where debit='Y';
```

```
AirlineReservation=# select sum(price) as debit_total from ticket where debit='Y';
debit_total
-----
       31400
(1 row)
```

4.count how many male passenger is there in passenger table.

`select count(*) as total_male from passenger where sex='M';`

```
AirlineReservation=# select count(*) as total_male from passenger where sex='M';
total_male
-----
          13
(1 row)

AirlineReservation=#
```

5.count different type of airplane(using group by).

`select count(type),type from airplane group by type;`

```
AirlineReservation=# select count(type),type from airplane group by type;
count |          type
-----+-----
      1 | Lockheed SR-71 Blackbird
      1 | Cirrus SR22
      3 | Airbus A380
      1 | Lockheed C-130
      1 | Boeing 737 NG/737 MAX
      2 | Boeing 747-8
      1 | Supermarine Spitfire
(7 rows)

AirlineReservation=#
```

JOIN & SUBQUERIES:

1. Display passenger's names whose flight is booked by credit card.

```
select CONCAT(fname,' ',lname) as Passenger_Name from Passenger p
where p.ticket_no in(select t_no from ticket where credit='Y');
```

```
AirlineReservation=# select CONCAT(fname,' ',lname) as Passenger_Name from Passenger p where p.ticket_no
in(select t_no from ticket where credit='Y');
passenger_name
-----
Amit Mistry
Shina William
Adarsh Suthar
Omakar moustafa
Avika Maheta
Abdul Raheman
Ramy Gamal
Krish Devendra
Rana hussein
(9 rows)

AirlineReservation=#
```

2. Display passenger information whose ticket type is 'A'.

```
select * from passenger where ticket_no in(select t_no from ticket where
t_type='A');
```

```
AirlineReservation=# select * from passenger where ticket_no in(select t_no from ticket where t_type='A');
p_id | fname | lname | sex | email | b_date | age | ticket_no
-----+-----+-----+----+-----+-----+---+-----
101 | Aman | Walia | M | amanwalia@gmail.com | 2001-01-21 | 35 | 131101
104 | Shina | William | F | willam@gmail.com | 2001-11-13 | 56 | 702002
105 | clara | Chopra | F | chopraclera@gmail.com | 2001-05-07 | 39 | 210101
106 | Adarsh | Suthar | M | adarshsuthar@gmail.com | 2001-03-03 | 42 | 280312
109 | Darshan | Mohamed | M | mohmed@gmail.com | 1966-06-10 | 35 | 270310
110 | Avika | Maheta | F | Avikamaheta@gmail.com | 1999-09-10 | 69 | 202001
112 | Abdul | Raheman | M | abdulraheman@gmail.com | 2009-04-26 | 75 | 705002
113 | Ramy | Gamal | M | ramy@gmail.com | 1992-02-07 | 25 | 120202
117 | Mahi | Salim | F | Salimmahi@gmail.com | 2019-03-27 | 22 | 100990
118 | Selim | Moustafa | M | selim5@gmail.com | 1997-02-02 | 18 | 200595
(10 rows)

AirlineReservation=#
```

3. Display passenger and their ticket information where ticket price is greater than 2000.

```
select * from Passenger p , Ticket t Where p.ticket_no = t.t_no and
t.price > 2000;
```

```
AirlineReservation=# select * from Passenger p , Ticket t Where p.ticket_no = t.t_no and t.price > 2000;
p_id | fname | lname | sex | email | b_date | age | ticket_no | t_no | price | credit | debit | t_type | max_weight | flight_no
-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----
102 | Amit | Mistry | M | amitmistry@gmail.com | 2001-04-23 | 34 | 705001 | 705001 | 3600 | Y | N | B | 46 | 152305
103 | Ahmed | Gamal | M | ahmed@gmail.com | 2002-02-07 | 22 | 120201 | 120201 | 3200 | N | Y | B | 46 | 121234
105 | Clara | Chopra | F | chopraclara@gmail.com | 2001-05-07 | 39 | 210101 | 210101 | 5200 | N | Y | A | 46 | 561689
109 | Darshan | Mohamed | M | mohmed@gmail.com | 1966-06-10 | 35 | 270310 | 270310 | 4500 | N | Y | A | 46 | 334563
112 | Abdul | Raheman | M | abdulraheman@gmail.com | 2009-04-26 | 75 | 705002 | 705002 | 3600 | Y | N | A | 46 | 152505
113 | Rami | Gamal | M | rami@gmail.com | 1992-02-07 | 25 | 120202 | 120202 | 3200 | Y | N | A | 46 | 121534
115 | Salma | Ahmed | F | salma@yahoo.com | 1998-05-20 | 58 | 210102 | 210102 | 5200 | N | Y | B | 46 | 561589
119 | Mohamed | Fakir | M | mohamed@gmail.com | 1971-06-10 | 72 | 270315 | 270315 | 4500 | N | Y | B | 46 | 334553
(8 rows)
```

4. Display airplane details whose company is 'Air india limited'.

```
select ap.* from Airplane ap join Airline ar on ap.airline_id=ar.airline_id
where ar.name='Air India Limited';
```

```
AirlineReservation=# select ap.* from Airplane ap join Airline ar on ap.airline_id=ar.airline_id where
ar.name='Air India Limited';
plane_id | type | no_seats | airline_id
-----+-----+-----+-----
9033 | Airbus A380 | 100 | 98
(1 row)
```

```
AirlineReservation=#
```

5. display passenger details whose flight is on date '2-11-2021'.

```
select p.* from passenger p join ticket t on p.ticket_no=t.t_no where  
t.flight_no in(select flight_no from flight where departure_date='2021-11-2');
```

```
AirlineReservation=# select p.* from passenger p join ticket t on p.ticket_no=t.t_no where t.flight_no in(select  
flight_no from flight where departure_date='2021-11-2');  
p_id | fname | lname | sex | email | b_date | age | ticket_no  
-----+-----+-----+----+-----+-----+---+-----  
115 | Salma | Ahmed | F | salma@yahoo.com | 1998-05-20 | 58 | 210102  
116 | Omar | Ayman | M | omar55@gmail.com | 2010-12-04 | 23 | 280313  
117 | Mahi | Salim | F | Salimmahi@gmail.com | 2019-03-27 | 22 | 100990  
118 | Selim | Moustafa | M | selim5@gmail.com | 1997-02-02 | 18 | 200595  
119 | Mohamed | Fakir | M | mohamed@gmail.com | 1971-06-10 | 72 | 270315  
120 | Rana | hussein | F | ranahussein@gmail.com | 1989-09-10 | 55 | 202005  
(6 rows)  
  
AirlineReservation=#
```