



DBMS MINI PROJECT

AIRLINES TICKET BOOKING SYSTEM

Section: D1

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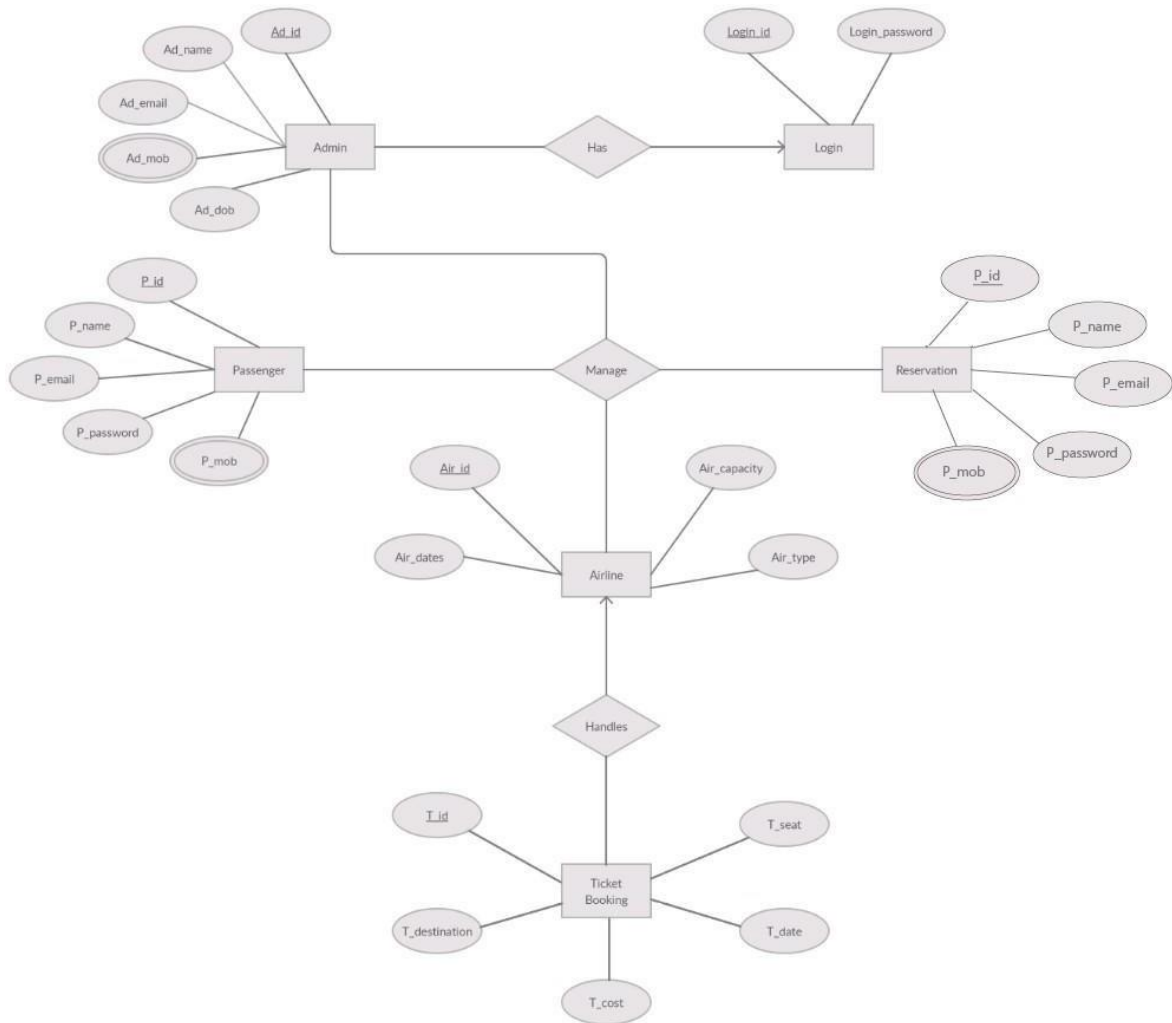
CONTENTS:

1. Abstract
2. ER Diagram
3. Convert to table(Relational Schema)
4. DDL With Constraints
5. DML Basic Select, SQL Function
6. SET Operations
7. Aggregation
8. Joins
9. Sub Query
10. PLSQL (Procedure, Function)
11. Cursor, Trigger

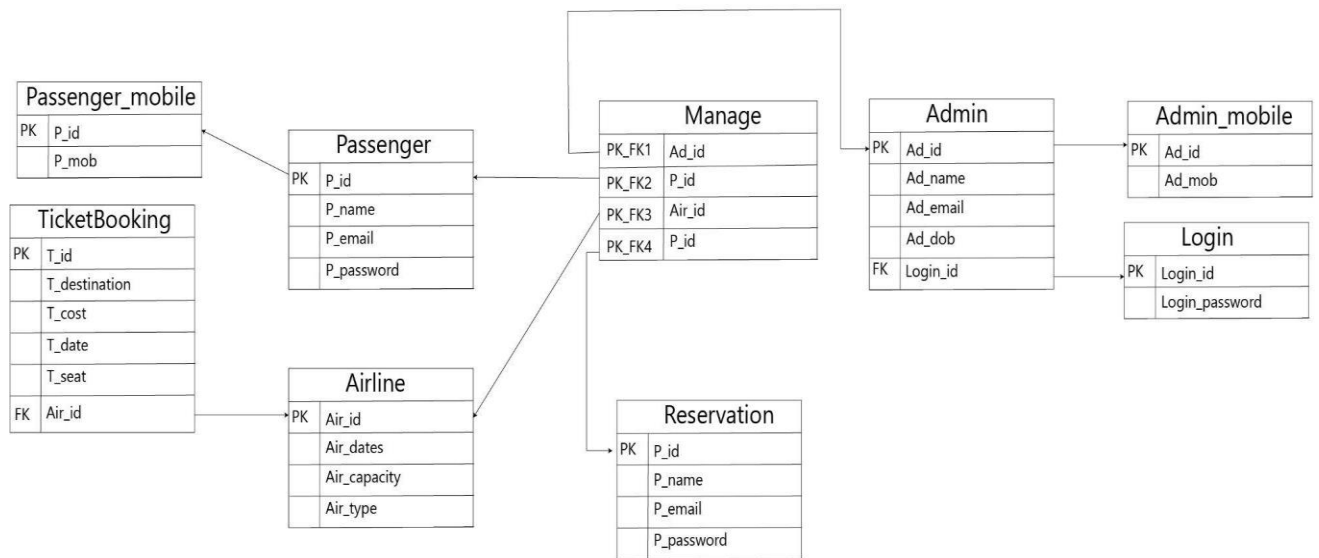
Abstract:

Airlines Ticket Booking System is an application of Database Management System which is used for booking and schedule information. This project Airline Ticket Booking System is to provide help for the user to book their flight tickets without visiting booking counter or to any other booking vendors. This system provides options for viewing different flights available with different timings for a particular date and provides customers with the facility to book a ticket, modify or cancel a particular reservation but it does not provide the customers with details of the cost of the ticket. It can also manage all the information about customers, booking inquiry reservation. Users can view the status and schedule of a flight directly, from the online. It also provides time to time current information related to airlines schedules. It tracks all the details about the airline's booking, ticket booking. It can keep recording airline employee detail, daily attendance, and employee salary calculation.

ER Diagram:



Relational Schema:



Creating the tables:

```
CREATE TABLE Airline ( Air_id int NOT NULL, Air_dates varchar(15) NOT NULL, Air_capacity
int NOT NULL, Air_type varchar(20) NOT NULL);
```

```
ALTER TABLE Airline ADD PRIMARY KEY (Air_id);
```

```
CREATE table TicketBooking (T_id int NOT NULL, T_destination varchar(25) NOT NULL,
T_cost int NOT NULL, T_date varchar(15) NOT NULL, T_Seat int NOT NULL, Air_id int NOT
NULL);
```

```
ALTER TABLE TicketBooking ADD PRIMARY KEY (T_id);
```

```
ALTER TABLE TicketBooking ADD FOREIGN KEY (Air_id) references Airline(Air_id);
```

```
create table Reservation ( P_id int NOT NULL, P_name varchar(25) NOT NULL, P_email
varchar(30) NOT NULL, P_password varchar(15) NOT NULL);
```

```
ALTER TABLE Reservation ADD PRIMARY KEY (P_id);
```

```
create table Passenger ( P_id int NOT NULL, P_name varchar(25) NOT NULL, P_email  
varchar(30) NOT NULL, P_password varchar(15) NOT NULL);
```

```
ALTER TABLE Passenger ADD PRIMARY KEY (P_id);
```

```
create table Passenger_mobile ( P_id int NOT NULL, P_mob int NOT NULL);
```

```
ALTER TABLE Passenger_mobile ADD PRIMARY KEY (P_id);
```

```
create table Login ( Login_id int NOT NULL PRIMARY KEY, Login_Password int NOT NULL);
```

```
create table Admin_mobile ( Ad_id int NOT NULL PRIMARY KEY, Ad_mob int NOT NULL);
```

```
create table Admin ( Ad_id int NOT NULL PRIMARY KEY, Ad_name Varchar(20) NOT NULL,  
Ad_email varchar(25) NOT NULL, Ad_dob varchar(15) NOT NULL, Login_id int NOT NULL);
```

```
ALTER TABLE Admin ADD FOREIGN KEY (Login_id) references Login(Login_id);
```

```
ALTER TABLE Admin ADD FOREIGN KEY (Ad_id) references Admin_mobile(Ad_id);
```

```
ALTER TABLE Passenger ADD FOREIGN KEY (P_id) references Passenger_mobile(P_id);
```

```
ALTER TABLE Passenger ADD FOREIGN KEY (P_id) references Reservation(P_id);
```

After running all the above queries the tables are created and their descriptions are shown below

```
MariaDB [project]> DESC admin;
```

Field	Type	Null	Key	Default	Extra
Ad_id	int(11)	NO	PRI	NULL	
Ad_name	varchar(20)	NO		NULL	
Ad_email	varchar(25)	NO		NULL	
Ad_dob	varchar(15)	NO		NULL	
Login_id	int(11)	NO	MUL	NULL	

```
5 rows in set (0.010 sec)
```

```
MariaDB [project]> DESC admin_mobile;
```

Field	Type	Null	Key	Default	Extra
Ad_id	int(11)	NO	PRI	NULL	
Ad_mob	int(11)	NO		NULL	

```
2 rows in set (0.011 sec)
```

```
MariaDB [project]> DESC airline;
```

Field	Type	Null	Key	Default	Extra
Air_id	int(11)	NO	PRI	NULL	
Air_dates	varchar(15)	NO		NULL	
Air_capacity	int(11)	NO		NULL	
Air_type	varchar(20)	NO		NULL	

```
4 rows in set (0.009 sec)
```

```
MariaDB [project]> DESC login;
```

Field	Type	Null	Key	Default	Extra
Login_id	int(11)	NO	PRI	NULL	
Login_Password	int(11)	NO		NULL	

```
2 rows in set (0.012 sec)
```

```
MariaDB [project]>
```

```

MariaDB [project]>
MariaDB [project]> DESC passenger;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| P_id       | int(11)   | NO   | PRI | NULL    |       |
| P_name     | varchar(25)| NO   |     | NULL    |       |
| P_email    | varchar(30)| NO   |     | NULL    |       |
| P_password | varchar(15)| NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.011 sec)

MariaDB [project]> DESC passenger_mobile;
+-----+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| P_id  | int(11)   | NO   | PRI | NULL    |       |
| P_mob | int(11)   | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.010 sec)

MariaDB [project]> DESC reservation;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| P_id       | int(11)   | NO   | PRI | NULL    |       |
| P_name     | varchar(25)| NO   |     | NULL    |       |
| P_email    | varchar(30)| NO   |     | NULL    |       |
| P_password | varchar(15)| NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.011 sec)

MariaDB [project]> DESC ticketbooking;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| T_id       | int(11)   | NO   | PRI | NULL    |       |
| T_destination | varchar(25)| NO   |     | NULL    |       |
| T_cost     | int(11)   | NO   |     | NULL    |       |
| T_date     | varchar(15)| NO   |     | NULL    |       |
| T_Seat     | int(11)   | NO   |     | NULL    |       |
| Air_id     | int(11)   | NO   | MUL | NULL    |       |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.009 sec)

```

HERE ARE THE TABLES WITH VALUES INSERTED IN THEM:

insert into Airline values('1', '1-06-21', '180', 'Private');

insert into Airline values('2', '2-06-21', '100', 'Government');

insert into Airline values('3', '3-06-21', '75', 'Private');

insert into Airline values('4', '4-06-21', '200', 'Private');

insert into Airline values('5', '5-06-21', '150', 'Government');

insert into TicketBooking values('1111', 'Goa', '5000', '1-06-21','10','1');

insert into TicketBooking values('2222', 'Chennai', '7000', '2-06-21','23','2');

insert into TicketBooking values('3333', 'Mumbai', '9000', '3-06-21','45','3');

insert into TicketBooking values('4444', 'New Delhi', '15000', '4-06-21','17','4');

insert into TicketBooking values('5555', 'Kolkata', '3500', '5-06-21','26','5');

insert into Reservation values('11', 'Nachiketa Choudhary', 'nachi@email.com','100300');

insert into Reservation values('12', 'Sachin Motwani', 'sachin@email.com','045045');

insert into Reservation values('13', 'Nandita Menon', 'nandita@email.com','870870');

insert into Reservation values('14', 'Shah Rukh Khan', 'srk@email.com','500500');

insert into Reservation values('15', 'Kuldeep Yadav', 'kull@email.com','900400');

insert into Passenger values('11', 'Nachiketa Choudhary', 'nachi@email.com','100300');

insert into Passenger values('12', 'Sachin Motwani', 'sachin@email.com','045045');

insert into Passenger values('13', 'Nandita Menon', 'nandita@email.com','870870');

insert into Passenger values('14', 'Shah Rukh Khan', 'srk@email.com','500500');

insert into Passenger values('15', 'Kuldeep Yadav', 'kull@email.com','900400');

insert into Passenger_mobile values('11', '8796767599');

insert into Passenger_mobile values('12', '9765236798');

insert into Passenger_mobile values('13', '7698764567');

insert into Passenger_mobile values('14', '9746487676');

insert into Passenger_mobile values('15', '6784648076');

insert into Admin values('1', 'Deepak Hooda','deepak@admin.com','12-12-01','123456');

insert into Admin values('2', 'Suresh Raina','suresh@admin.com','15-12-02','999111');

insert into Admin values('3', 'Mahesh Bhatt','mahesh@admin.com','20-11-01','200300');

insert into admin_mobile values ('1','7654896587');

insert into admin_mobile values ('2','5456897377');

insert into admin_mobile values ('3','9944467855');

insert into login values('123456','065065');

insert into login values('999111','222333');

insert into login values('200300','500700');

```
MariaDB [project]>
MariaDB [project]>
MariaDB [project]> SELECT * FROM admin;
+-----+-----+-----+-----+-----+
| Ad_id | Ad_name | Ad_email | Ad_dob | Login_id |
+-----+-----+-----+-----+-----+
| 1 | Deepak Hooda | deepak@admin.com | 12-12-01 | 123456 |
| 2 | Suresh Raina | suresh@admin.com | 15-12-02 | 999111 |
| 3 | Mahesh Bhatt | mahesh@admin.com | 20-11-01 | 200300 |
+-----+-----+-----+-----+-----+
3 rows in set (0.001 sec)

MariaDB [project]> SELECT * FROM admin_mobile;
+-----+-----+
| Ad_id | Ad_mob |
+-----+-----+
| 1 | 2147483647 |
| 2 | 2147483647 |
| 3 | 2147483647 |
+-----+-----+
3 rows in set (0.000 sec)

MariaDB [project]> SELECT * FROM airline;
+-----+-----+-----+-----+
| Air_id | Air_dates | Air_capacity | Air_type |
+-----+-----+-----+-----+
| 1 | 1-06-21 | 180 | Private |
| 2 | 2-06-21 | 100 | Government |
| 3 | 3-06-21 | 75 | Private |
| 4 | 4-06-21 | 200 | Private |
| 5 | 5-06-21 | 150 | Government |
+-----+-----+-----+-----+
5 rows in set (0.000 sec)

MariaDB [project]> SELECT * FROM login;
+-----+-----+
| Login_id | Login_Password |
+-----+-----+
| 123456 | 65065 |
| 200300 | 500700 |
| 999111 | 222333 |
+-----+-----+
3 rows in set (0.000 sec)
```

```

MariaDB [project]>
MariaDB [project]> SELECT * FROM passenger;
+-----+-----+-----+-----+
| P_id | P_name           | P_email           | P_password |
+-----+-----+-----+-----+
| 11   | Nachiketa Choudhary | nachiketa@email.com | 100300    |
| 12   | Sachin Motwani     | sachin@email.com   | 045045    |
| 13   | Nandita Menon      | nandita@email.com  | 870870    |
| 14   | Shah Rukh Khan     | srk@email.com       | 500500    |
| 15   | Kuldeep Yadav      | kull@email.com      | 900400    |
+-----+-----+-----+-----+
5 rows in set (0.001 sec)

MariaDB [project]> SELECT * FROM passenger_mobile;
+-----+-----+
| P_id | P_mob |
+-----+-----+
| 11   | 2147483647 |
| 12   | 2147483647 |
| 13   | 2147483647 |
| 14   | 2147483647 |
| 15   | 2147483647 |
+-----+-----+
5 rows in set (0.000 sec)

MariaDB [project]> SELECT * FROM ticketbooking;
+-----+-----+-----+-----+-----+-----+
| T_id | T_destination | T_cost | T_date | T_Seat | Air_id |
+-----+-----+-----+-----+-----+-----+
| 1111 | Goa           | 5000   | 1-06-21 | 10     | 1       |
| 2222 | Chennai       | 7000   | 2-06-21 | 23     | 2       |
| 3333 | Mumbai        | 9000   | 3-06-21 | 45     | 3       |
| 4444 | New Delhi     | 15000  | 4-06-21 | 17     | 4       |
| 5555 | Kolkata       | 3500   | 5-06-21 | 26     | 5       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.000 sec)

MariaDB [project]> SELECT * FROM reservation;
+-----+-----+-----+-----+
| P_id | P_name           | P_email           | P_password |
+-----+-----+-----+-----+
| 11   | Nachiketa Choudhary | nachiketa@email.com | 100300    |
| 12   | Sachin Motwani     | sachin@email.com   | 045045    |
| 13   | Nandita Menon      | nandita@email.com  | 870870    |
| 14   | Shah Rukh Khan     | srk@email.com       | 500500    |
| 15   | Kuldeep Yadav      | kull@email.com      | 900400    |
+-----+-----+-----+-----+
5 rows in set (0.000 sec)

MariaDB [project]>

```

DDL With Constraints

Select * from airline where Air_capacity='180';

```

200300      500700
SQL> Select * from airline where Air_capacity='180';

  AIR_ID  AIR_DATES      AIR_CAPACITY  AIR_TYPE
-----
      1  1-06-21              180  Private

SQL> _

```

Select p_name, p_password from reservation;

```

SQL> Select p_name, p_password from reservation;

P_NAME                                P_PASSWORD
-----
Nachiketa Choudhary                  100300
Sachin Motwani                      045045
Nandita Menon                       870870
Shah Rukh Khan                     500500
Kuldeep Yadav                       900400

SQL>

```

Insert into Passenger_mobile(P_id, P_mob) values (4, '886148924');

```

SQL> Insert into Passenger_mobile(P_id, P_mob) values (4, '886148924');
1 row created.

SQL> select * from Passenger_mobile where P_id='4';

  P_ID  P_MOB
-----
      4  886148924

SQL> _

```

Delete from passenger where P_name='Sachin Motwani';

```

SQL> Delete from passenger where P_name='Sachin Motwani';
1 row deleted.

SQL> select * from passenger;

  P_ID  P_NAME                                P_EMAIL
-----
100300      11 Nachiketa Choudhary          nachiketa@gmail.com
870870      13 Nandita Menon                  nandita@gmail.com
500500      14 Shah Rukh Khan                  srk@gmail.com

  P_ID  P_NAME                                P_EMAIL
-----
900400      15 Kuldeep Yadav                  kull@gmail.com

```

update airline set Air_Dates = '6-06-21' where Air_capacity = '150';

```
SQL> update  airline set Air_Dates = '6-06-21' where Air_capacity = '150';

1 row updated.

SQL> select * from airline;

  AIR_ID AIR_DATES      AIR_CAPACITY AIR_TYPE
-----
      1 1-06-21          180 Private
      2 2-06-21          100 Government
      3 3-06-21           75 Private
      4 4-06-21          200 Private
      5 6-06-21          150 Government

SQL>
```

Set operations:

Select P_id, P_name from Passenger union select P_id, P_name from Reservation;

```
SQL> Select P_id, P_name from Passenger union select P_id, P_name from Reservation;

  P_ID P_NAME
-----
    11 Nachiketa Choudhary
    12 Sachin Motwani
    13 Nandita Menon
    14 Shah Rukh Khan
    15 Kuldeep Yadav

SQL>
```

Select P_id from Passenger union all select P_id from Reservation;

```
>
> Select P_id from Passenger union all select P_id from Reservation;

  P_ID
-----
    11
    13
    14
    15
    11
    12
    13
    14
    15

ows selected.

>
```

Select P_id, P_name from Passenger intersect select P_id, P_name from Reservation;

```
SQL>
SQL> Select P_id, P_name from Passenger intersect select P_id, P_name from Reservation;
```

```
P_ID P_NAME
```

```
-----
11 Nachiketa Choudhary
13 Nandita Menon
14 Shah Rukh Khan
15 Kuldeep Yadav
```

Select * from Passenger minus select * from Reservation;

```
14 Shah Rukh Khan
15 Kuldeep Yadav
SQL> Select * from Passenger minus select * from Reservation;
no rows selected
SQL>
```

Select P_email from Passenger intersect select P_email from Reservation;

```
SQL> Select P_email from Passenger intersect select P_email from Reservation;
P_EMAIL
-----
kull@email.com
nachi@email.com
nandita@email.com
srk@email.com
SQL>
```

Aggregate operations:

Select variance(T_cost) from Ticketbooking;

```
SQL> Select variance(T_cost) from Ticketbooking;
VARIANCE(T_COST)
-----
          20050000
SQL>
```

Select avg(Air_capacity) from Airline;

```
SQL> Select avg(Air_capacity) from Airline;
AVG(AIR_CAPACITY)
-----
              141
SQL>
```

Select count(Ad_id) from Admin;

```
              141
SQL> Select count(Ad_id) from Admin;
COUNT(AD_ID)
-----
              3
SQL>
```

Select max(T_seat) from Ticketbooking;

```
-----
              3
SQL> Select max(T_seat) from Ticketbooking;
MAX(T_SEAT)
-----
              45
SQL>
```

Select sum(T_cost) from Ticketbooking;

```

SQL> Select sum(T_cost) from Ticketbooking;

SUM(T_COST)
-----
      39500

SQL> _

```

SET operations

SELECT * FROM airline WHERE Air_capacity > 100 UNION SELECT * FROM airline WHERE Air_type = 'Private';

```

MariaDB [project]> SELECT * FROM airline WHERE Air_capacity > 100 UNION SELECT * FROM airline WHERE Air_type = 'Private';
+-----+-----+-----+-----+
| Air_id | Air_dates | Air_capacity | Air_type |
+-----+-----+-----+-----+
| 1      | 1-06-21  | 180         | Private  |
| 4      | 4-06-21  | 200         | Private  |
| 5      | 5-06-21  | 150         | Government |
| 3      | 3-06-21  | 75          | Private  |
+-----+-----+-----+-----+
4 rows in set (0.001 sec)

```

SELECT * FROM airline WHERE Air_capacity > 100 INTERSECT SELECT * FROM airline WHERE Air_type = 'Private';

```

MariaDB [project]> SELECT * FROM airline WHERE Air_capacity > 100 INTERSECT SELECT * FROM airline WHERE Air_type = 'Private';
+-----+-----+-----+-----+
| Air_id | Air_dates | Air_capacity | Air_type |
+-----+-----+-----+-----+
| 1      | 1-06-21  | 180         | Private  |
| 4      | 4-06-21  | 200         | Private  |
+-----+-----+-----+-----+
2 rows in set (0.001 sec)

MariaDB [project]>

```

SELECT * FROM passenger WHERE P_name LIKE 'S%' UNION SELECT * FROM passenger WHERE P_name LIKE '%N';

```

MariaDB [project]>
MariaDB [project]> SELECT * FROM passenger WHERE P_name LIKE 'S%' UNION SELECT * FROM passenger WHERE P_name LIKE '%N';
+-----+-----+-----+-----+
| P_id | P_name      | P_email      | P_password |
+-----+-----+-----+-----+
| 12   | Sachin Motwani | sachin@email.com | 045045    |
| 14   | Shah Rukh Khan | srk@email.com   | 500500    |
| 13   | Nandita Menon  | nandita@email.com | 870870    |
+-----+-----+-----+-----+
3 rows in set (0.005 sec)

```

SELECT * FROM passenger WHERE P_name LIKE 'S%' INTERSECT SELECT * FROM passenger WHERE P_name LIKE '%N';

```
MariaDB [project]> SELECT * FROM passenger WHERE P_name LIKE 'S%' INTERSECT SELECT * FROM passenger WHERE P_name LIKE '%N';
+-----+-----+-----+-----+
| P_id | P_name      | P_email      | P_password |
+-----+-----+-----+-----+
| 14   | Shah Rukh Khan | srk@email.com | 500500     |
+-----+-----+-----+-----+
1 row in set (0.001 sec)
```

SELECT * FROM ticketbooking WHERE T_cost >= 5000 UNION SELECT * FROM ticketbooking WHERE T_seat > 20;

```
MariaDB [project]> SELECT * FROM ticketbooking WHERE T_cost >= 5000 UNION SELECT * FROM ticketbooking WHERE T_seat > 20;
+-----+-----+-----+-----+-----+-----+
| T_id | T_destination | T_cost | T_date | T_Seat | Air_id |
+-----+-----+-----+-----+-----+-----+
| 1111 | Goa           | 5000   | 1-06-21 | 10     | 1       |
| 2222 | Chennai      | 7000   | 2-06-21 | 23     | 2       |
| 3333 | Mumbai       | 9000   | 3-06-21 | 45     | 3       |
| 4444 | New Delhi    | 15000  | 4-06-21 | 17     | 4       |
| 5555 | Kolkata      | 3500   | 5-06-21 | 26     | 5       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.005 sec)
```

SELECT * FROM ticketbooking WHERE T_cost >= 5000 INTERSECT SELECT * FROM ticketbooking WHERE T_seat > 20;

```
5 rows in set (0.005 sec)
MariaDB [project]> SELECT * FROM ticketbooking WHERE T_cost >= 5000 INTERSECT SELECT * FROM ticketbooking WHERE T_seat > 20;
+-----+-----+-----+-----+-----+-----+
| T_id | T_destination | T_cost | T_date | T_Seat | Air_id |
+-----+-----+-----+-----+-----+-----+
| 2222 | Chennai      | 7000   | 2-06-21 | 23     | 2       |
| 3333 | Mumbai       | 9000   | 3-06-21 | 45     | 3       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.001 sec)

MariaDB [project]>
```

Aggregation:

```
select count(ad_name) from admin;
select avg(t_cost) from ticketbooking;
select sum(p_id) from passenger;
select max(air_capacity) from airline;
select min(t_seat) from ticketbooking;
```



```

SQL> select count(ad_name) from admin;

COUNT(AD_NAME)
-----
                3

SQL> select avg(t_cost) from ticketbooking;

AVG(T_COST)
-----
          7900

SQL> select sum(p_id) from passenger;

SUM(P_ID)
-----
         53

SQL> select max(air_capacity) from airline;

MAX(AIR_CAPACITY)
-----
                200

SQL> select min(t_seat) from ticketbooking;

MIN(T_SEAT)
-----
          10

```

Joins:

select admin.ad_id, admin.ad_name, admin_mobile.ad_mob from admin inner join
admin_mobile on admin.ad_id=admin_mobile.ad_id;

```

SQL> select admin.ad_id, admin.ad_name, admin_mobile.ad_mob from admin inner join admin_mobile on admin.ad_id=admin_mobile.ad_id;

  AD_ID AD_NAME      AD_MOB
-----
      1 Deepak Hooda  7654896587
      2 Suresh Raina  5456897377
      3 Mahesh Bhatt  9944467855

SQL> commit;

```

select passenger.p_id, passenger.p_name, passenger_mobile.p_mob from passenger
right outer join passenger_mobile on passenger.p_id=passenger_mobile.p_id;

```
SQL> select passenger.p_id, passenger.p_name, passenger_mobile.p_mob from passenger right outer join passenger_mobile on passenger.p_id=passenger_mobile.p_id;
```

P_ID	P_NAME	P_MOB
11	Nachiketa Choudhary	8796767599
13	Nandita Menon	7698764567
14	Shah Rukh Khan	9746487676
15	Kuldeep Yadav	6784648076
		9765236798
		886148924

6 rows selected.

```
select admin.ad_id, admin.ad_name, admin_mobile.ad_mob from admin cross join admin_mobile ;
```

```
SQL> select admin.ad_id, admin.ad_name, admin_mobile.ad_mob from admin cross join admin_mobile ;
```

AD_ID	AD_NAME	AD_MOB
1	Deepak Hooda	7654896587
1	Deepak Hooda	5456897377
1	Deepak Hooda	9944467855
2	Suresh Raina	7654896587
2	Suresh Raina	5456897377
2	Suresh Raina	9944467855
3	Mahesh Bhatt	7654896587
3	Mahesh Bhatt	5456897377
3	Mahesh Bhatt	9944467855

9 rows selected.

```
SQL> _
```

```
select airline.air_id, airline.air_dates, airline.air_type, ticketbooking.t_destination,  
ticketbooking.t_date, ticketbooking.air_id from airline right join ticketbooking on  
airline.air_id=ticketbooking.air_id;
```

```
SQL> select airline.air_id, airline.air_dates, airline.air_type, ticketbooking.t_destination, ticketbooking.t_date, ticketbooking.air_id from airline right join ticketbooking on airline.air_id=ticketbooking.air_id;
```

AIR_ID	AIR_DATES	AIR_TYPE	T_DESTINATION
T_DATE	AIR_ID		
1-06-21	1	Private	Goa
2-06-21	2	Government	Chennai
3-06-21	3	Private	Mumbai
4-06-21	4	Private	New Delhi
5-06-21	5	Government	Kolkata

```
select airline.air_id, airline.air_dates, airline.air_type, ticketbooking.t_destination, ticketbooking.t_date, ticketbooking.air_id from airline left join ticketbooking on airline.air_id=ticketbooking.air_id;
```

```
SQL> select airline.air_id, airline.air_dates, airline.air_type, ticketbooking.t_destination, ticketbooking.t_date, ticketbooking.air_id from airline left join ticketbooking on airline.air_id=ticketbooking.air_id;
```

AIR_ID	AIR_DATES	AIR_TYPE	T_DESTINATION
T_DATE	AIR_ID		
1-06-21	1	Private	Goa
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3-06-21	3	Private	Mumbai
4-06-21	4	Private	New Delhi
5-06-21	5	Government	Kolkata

PL/SQL:

To find the max cost of tickets:

```
DECLARE
m number;
function maxCost return number is
final number;
```

```
BEGIN
select max(T_cost) into final from
Ticketbooking;
return final;
END;
```

```
BEGIN
m:= maxCost();
dbms_output.put_line(' Maximum Ticket cost is : '||m);
END;
/
```

```
SQL> DECLARE
 2  m number;
 3  function maxCost return number is
 4  final number;
 5
 6  BEGIN
 7  select max(T_cost) into final from
 8  Ticketbooking;
 9  return final;
10  END;
11
12  BEGIN
13  m:= maxCost();
14  dbms_output.put_line(' Maximum Ticket cost is : '||m);
15  END;
16  /
Maximum Ticket cost is : 15000
PL/SQL procedure successfully completed.
```

Procedure to find the name of the admin with email, deepak@admin.com

```
create or replace procedure admin_details
as Admin_Name Admin.Ad_name%type;
begin
select Ad_name into Admin_Name from Admin where Ad_id in(select Ad_id from Admin
where Ad_email = 'deepak@admin.com');
dbms_output.put_line(Admin_Name);
end;
/
```

execute admin_details;

```
SQL> create or replace procedure admin_details
  2 as Admin_Name Admin.Ad_name%type;
  3 begin
  4 select Ad_name into Admin_Name from Admin where Ad_id in(select Ad_id from Admin where Ad_email = 'deepak@admin.com');
  5 dbms_output.put_line(Admin_Name);
  6 end;
  7 /

Procedure created.

SQL>
SQL> execute admin_details;
Deepak Hooda

PL/SQL procedure successfully completed.
```

To find the total number of reservations:

select P_id, P_name from Reservation;

DECLARE

t number;

function totRes return number is

final number;

BEGIN

select count(P_id) into final from Reservation;

return final;

END;

BEGIN

t:= totRes();

dbms_output.put_line(' Total number of reservations is : '||t);

END;

/

```

SQL>
SQL> DECLARE
  2  t number;
  3  function totRes return number is
  4  final number;
  5
  6  BEGIN
  7  select count(P_id) into final from Reservation;
  8  return final;
  9  END;
10
11  BEGIN
12  t:= totRes();
13  dbms_output.put_line(' Total number of reservations is : '||t);
14  END;
15  /
Total number of reservations is : 5

PL/SQL procedure successfully completed.

```

Procedure to display details of the airline with ID as 3.

```

create or replace procedure airline_details as Airline_Type Airline.Air_type%type;
Airline_Capacity Airline.Air_capacity%type;
Airline_Date Airline.Air_dates%type;
Airline_ID Airline.Air_id%type;
begin
select Air_type, Air_capacity, Air_dates, Air_id into Airline_Type, Airline_Capacity,
Airline_Date, Airline_ID from Airline where Air_id in(select Air_id from Airline where
Air_id='3');
dbms_output.put_line(Airline_Type);
dbms_output.put_line(Airline_Capacity);
dbms_output.put_line(Airline_Date);
dbms_output.put_line(Airline_ID);
end;
/

execute airline_details;

```

```

SQL> create or replace procedure airline_details as Airline_Type Airline.Air_type%type;
  2  Airline_Capacity Airline.Air_capacity%type;
  3  Airline_Date Airline.Air_dates%type;
  4  Airline_ID Airline.Air_id%type;
  5  begin
  6  select Air_type, Air_capacity, Air_dates, Air_id into Airline_Type, Airline_Capacity, Airline_Date, Airline_ID from Airline where Air_id in(select Air_id from Airline where Air_id='3');
  7  dbms_output.put_line(Airline_Type);
  8  dbms_output.put_line(Airline_Capacity);
  9  dbms_output.put_line(Airline_Date);
 10  dbms_output.put_line(Airline_ID);
 11  end;
 12  /

Procedure created.

SQL>
SQL> execute airline_details;
Private
75
3-06-21
3

PL/SQL procedure successfully completed.

```

To find the average cost of tickets:

DECLARE

m number;

function avgCost return number is

final number;

BEGIN

select avg(T_cost) into final from

Ticketbooking;

return final;

END;

BEGIN

m:= avgCost();

dbms_output.put_line(' Average Ticket cost is : '||m);

END;
/

```
SQL>
SQL> DECLARE
  2  m number;
  3  function avgCost return number is
  4  final number;
  5
  6  BEGIN
  7  select avg(T_cost) into final from
  8  Ticketbooking;
  9  return final;
10  END;
11
12  BEGIN
13  m:= avgCost();
14  dbms_output.put_line(' Average Ticket cost is : '||m);
15  END;
16  /
Average Ticket cost is : 7900

PL/SQL procedure successfully completed.
```