

## **"AIRLINE RESERVATION SYSTEM"**

### **ABSTRACT:**

An airline is a company that provides air transport services for traveling passengers and/or freight. The airline industry encompasses a wide range of businesses, called airlines, which offer air transport services for paying customers or business partners. These air transport services are provided for both human travellers and cargo, and are most commonly offered via jets, although some airlines also use helicopters.

Airlines may offer scheduled and/or chartered services and the airline industry forms a key part of the wider travel industry, providing customers with the ability to purchase seats on flights and travel to different parts of the world.

Airline reservation system is web-based system that helps in consolidating flight data - flight schedules, seat availability, flight fares and reservations from all airlines with the help of global distribution systems and rates for customers.

Airline Reservation System contains the details about flight schedules and its price, passenger details and ticket records, ticket cancelled records. It saves time as it allows online procedures as users no longer to wait in a queue to book the flights. It is automatically generated by the server.

### **OBJECTIVES:**

1. To search and book flight tickets online for specific seats from various flights.
2. To check available seats on flight.
3. It will give proper details about customers.

## STRUCTURE OF TABLE:

### Airline:

This Table contains the details of Airline Company and Airline code.

```
mysql> desc Airline;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Airline_code   | varchar(5)    | NO   | PRI | NULL    |       |
| Airline_name   | varchar(30)   | NO   | UNI | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.10 sec)
```

### Flight:

This table contain all information about flights, their takeoff timing, arriving time, Flight belong to which airline company , destination and source place. Passengers can check flight for a particular location and their timing.

```
mysql> desc flight;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Flight_no      | int           | NO   | PRI | NULL    |       |
| Source         | varchar(20)   | NO   |     | NULL    |       |
| Destination    | varchar(20)   | NO   |     | NULL    |       |
| Dep_time       | time          | YES  |     | NULL    |       |
| Arriving_time  | time          | YES  |     | NULL    |       |
| Seat_Available | int           | NO   |     | NULL    |       |
| Airline_code   | varchar(5)    | YES  | MUL | NULL    |       |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.08 sec)
```

### Class:

This table contains information about Class type like business or economic class and their price.

```
mysql> desc class;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Class_Type     | varchar(10)   | NO   | PRI | NULL    |       |
| Price          | decimal(10,0) | NO   |     | NULL    |       |
| Flight_no      | int           | YES  | MUL | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.01 sec)
```

### Flight seats:

This tables contains information about flight no and seat number of flight.

```
mysql> desc Flight_seats;
+-----+-----+-----+-----+-----+-----+
| Field      | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Seat_no    | int  | NO   | PRI | NULL    |       |
| flight_no  | int  | NO   | PRI | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.08 sec)
```

### Customers:

This tables contains information about customer id , Date of birth , location etc .

They have account with Airline company.

```
mysql> desc customer;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| C_ID       | int       | NO   | PRI | NULL    | auto_increment |
| DOB        | date      | NO   |     | NULL    |               |
| NAME       | varchar(40) | NO   |     | NULL    |               |
| Gender     | varchar(10) | YES  |     | NULL    |               |
| CITY       | varchar(20) | NO   |     | NULL    |               |
| State      | varchar(20) | NO   |     | NULL    |               |
| country    | varchar(20) | YES  |     | India   |               |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.06 sec)
```

### Ticket booked:

This table contain information about Customer who have booked ticket, their class type , seat number, flight no and date of booked.

```
mysql> desc ticket_booked;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| PNR_NO     | bigint    | NO   | PRI | NULL    | auto_increment |
| C_ID       | int       | YES  | MUL | NULL    |               |
| Flight_no  | int       | YES  | MUL | NULL    |               |
| seat_no    | int       | YES  | MUL | NULL    |               |
| class      | varchar(10) | YES  | MUL | NULL    |               |
| BookingDate | datetime  | YES  |     | NULL    |               |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.01 sec)
```

### **Ticket cancelled:**

This table contains information about customer who cancelled Flight ticket.

```
mysql> desc ticket_cancelled;
+-----+-----+-----+-----+-----+-----+
| Field          | Type      | Null  | Key  | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| PNR_NO         | bigint    | YES   |      | NULL    |       |
| C_ID           | int       | YES   |      | NULL    |       |
| CancelledDate  | datetime  | YES   |      | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.03 sec)
```

## CONTENTS OF TABLES:

### Airline:

```
mysql> select * from airline;
```

Airline_code	Airline_name
AI	Air India
G8	Go First
6E	Indigo
SG	SpiceJet
UK	Vistara

```
5 rows in set (0.01 sec)
```

### Class:

```
mysql> select * from class;
```

Class_Type	Price	Flight_no
Business	10000.00	101
Business	6814.00	102
Business	6800.00	103
Business	4700.00	201
Business	10000.00	202
Business	10500.00	301
Business	4700.00	302
Business	4000.00	401
Business	4947.00	501
Business	4947.00	502
Economic	4500.00	101
Economic	3814.00	102
Economic	3800.00	103
Economic	2850.00	201
Economic	4000.00	202
Economic	5000.00	301
Economic	2850.00	302
Economic	2970.00	401
Economic	3947.00	501
Economic	3947.00	502

```
20 rows in set (0.01 sec)
```



## Flight:

```
mysql> select * from flight;
```

Flight_no	Source	Destination	Dep_time	Arriving_time	Seat_Available	Airline_code
101	Mumbai	Delhi	19:00:00	21:00:00	5	AI
102	Mumbai	Chennai	17:50:00	20:15:00	5	AI
103	Chennai	Mumbai	06:10:00	08:10:00	5	AI
201	Mumbai	Banglore	23:10:00	12:00:00	5	6E
202	Delhi	Mumbai	06:10:00	08:10:00	5	6E
301	Mumbai	Delhi	22:55:00	01:05:00	5	UK
302	Banglore	Mumbai	18:00:00	19:10:00	5	UK
401	Banglore	Mumbai	18:35:00	20:35:00	5	G8
501	Mumbai	Nagpur	21:50:00	23:20:00	5	SG
502	Nagpur	Mumbai	13:35:00	15:00:00	5	SG

```
10 rows in set (0.00 sec)
```

## Customer:

```
mysql> select * from customer;
```

C_ID	DOB	NAME	Gender	CITY	State	country
8001	1993-02-19	Vaishnavi Adani	Female	Mumbai	Maharashtra	India
8002	1987-11-25	Mani Yadav	Male	Thane	Maharashtra	India
8003	1998-07-05	Praveen Kumar	Male	Borivali	Maharashtra	India
8004	1991-06-15	Ashwini Kangne	Female	kalyan	Maharashtra	India
8005	2000-02-14	Priya Randive	Female	kalyan	Maharashtra	India
8006	1997-05-09	Abhay Singh	Male	Mumbai	Maharashtra	India
8008	1988-08-23	Rama Gopal	Male	chennai	Tamil Nadu	India
8009	1998-03-01	Anjana Nair	Female	coimbatore	Tamil Nadu	India
8010	1982-04-07	Ritik Pillai	Male	Madurai	Tamil Nadu	India
8011	1989-05-19	Ram Gopal	Male	coimbatore	Tamil Nadu	India
8012	2007-02-07	Adity Shrama	Male	Banglore	Karnataka	India
8013	2002-09-30	Lara Dutta	Female	Mysore	Karnataka	India
8014	1997-09-29	Aishwarya Rai	Female	Mysore	Karnataka	India
8015	1980-05-02	Rahul Dravid	Male	Mysore	Karnataka	India
8016	1984-05-07	Heena Khan	Female	Mumai	Maharashtra	India
8017	1988-05-27	Parth Yadav	Male	Mumbai	Maharashtra	India
8018	1995-08-31	Dishant Mehta	Male	Borivali	Maharashtra	India
8019	1991-04-04	Dishant Mehta	Male	Mumbai	Maharashtra	India
8020	1991-04-04	Sangeeta Naik	Female	Chennai	Tamil Nadu	India
8021	1998-02-03	Divya Randive	Female	Chennai	Tamil Nadu	India
8022	1993-12-09	Shahid Khan	Male	Mumbai	Maharashtra	India
8023	2011-04-21	Sneha salvi	Female	Mumbai	Maarashtra	India
8024	2013-05-22	vineet vagh	Male	Chennai	Tamil Nadu	India
8025	2014-05-01	Divya vaitya	Female	Chennai	Tamil Nadu	India
8026	2000-02-12	Bala	Male	Chennai	Tamil Nadu	India
8027	1996-05-19	Shraddha Kapoor	Female	coimbatore	Tamil Nadu	India
8028	1996-05-19	Rohit Shetty	Male	Mysore	Karnataka	India
8029	2000-07-04	Rohit Shetty	Male	Mysore	Karnataka	India
8030	2009-06-09	anisha Gupta	Female	coimbatore	Tamil Nadu	India
8031	2007-07-04	Innaya Kapoor	Female	Coimbatore	Tamil Nadu	India

```
30 rows in set (0.00 sec)
```

## Flight seats:

```
mysql> select * from flight_seats;
```

Seat_no	flight_no
1011	101
1012	101
1013	101
1014	101
1015	101
1021	102
1022	102
1023	102
1024	102
1025	102
1031	103
1032	103
1033	103
1034	103
1035	103
2011	201
2012	201
2013	201
2014	201
2015	201
2021	202
2022	202
2023	202
2024	202
2025	202
3011	301
3012	301
3013	301
3014	301
3015	301
3021	302
3022	302
3023	302
3024	302
3025	302
4011	401
4012	401
4013	401
4014	401
4015	401

```
40 rows in set (0.00 sec)
```

## Ticket booked:

```
mysql> select * from ticket_booked;
```

PNR_NO	C_ID	Flight_no	seat_no	class	BookingDate
900001	8002	102	1022	Business	2023-02-02 00:00:00
900002	8017	102	1021	Business	2023-02-02 00:00:00
900003	8011	102	1023	Business	2023-02-02 00:00:00
900004	8015	102	1024	Business	2023-02-02 00:00:00
900005	8006	102	1025	Economic	2023-02-03 00:00:00
900007	8002	103	1031	Economic	2023-02-07 00:00:00
900008	8019	301	3011	Business	2023-02-01 00:00:00
900009	8019	202	2021	Business	2023-02-05 00:00:00
900010	8022	202	2022	Economic	2023-02-05 00:00:00
900011	8015	301	3012	Economic	2023-02-01 00:00:00
900012	8008	301	3013	Economic	2023-02-01 00:00:00
900013	8001	302	3021	Economic	2023-02-04 00:00:00
900014	8003	302	3022	Business	2023-02-04 00:00:00
900015	8009	103	1031	Economic	2023-02-03 00:00:00
900016	8013	103	1032	Economic	2023-02-03 00:00:00
900017	8020	202	2023	Economic	2023-02-05 00:00:00
900018	8017	202	2024	Economic	2023-02-03 00:00:00
900020	8015	202	2025	Economic	2023-02-03 00:00:00
900021	8011	101	1011	Economic	2023-02-06 00:00:00
900022	8005	101	1012	Economic	2023-02-06 00:00:00
900023	8002	101	1013	Economic	2023-02-06 00:00:00
900024	8002	302	3021	Business	2023-02-05 00:00:00
900025	8003	202	2021	Economic	2023-02-04 00:00:00
900026	8004	102	1021	Economic	2023-02-03 00:00:00
900027	8020	102	1022	Economic	2023-02-03 00:00:00
900028	8020	302	3021	Economic	2023-02-01 00:00:00
900030	8019	302	3022	Business	2023-02-01 00:00:00
900031	8013	302	3023	Economic	2023-02-03 00:00:00

```
28 rows in set (0.00 sec)
```



## SUBQUERIES:

### 1. Select all the customer details who are going to Mumbai.

SELECT \* FROM CUSTOMER WHERE C\_ID IN (select c\_ID FROM TICKET\_BOOKED WHERE FLIGHT\_NO IN (select flight\_no from flight where destination = 'Mumbai'));

```
mysql> SELECT * FROM CUSTOMER WHERE C_ID IN (select c_ID FROM TICKET_BOOKED WHERE FLIGHT_NO IN (select flight_no from flight where destination = 'Mumbai'));
```

C_ID	DOB	NAME	Gender	CITY	State	country
8009	1998-03-01	Anjana Nair	Female	coimbatore	Tamil Nadu	India
8002	1987-11-25	Mani Yadav	Male	Thane	Maharashtra	India
8013	2002-09-30	Lara Dutta	Female	Mysore	Karnataka	India
8003	1998-07-05	Praveen Kumar	Male	Borivali	Maharashtra	India
8019	1991-04-04	Dishant Mehta	Male	Mumbai	Maharashtra	India
8022	1993-12-09	Shahid Khan	Male	Mumbai	Maharashtra	India
8020	1991-04-04	Sangeeta Naik	Female	Chennai	Tamil Nadu	India
8017	1988-05-27	Parth Yadav	Male	Mumbai	Maharashtra	India
8015	1980-05-02	Rahul Dravid	Male	Mysore	Karnataka	India
8001	1993-02-19	Vaishnavi Adani	Female	Mumbai	Maharashtra	India

10 rows in set (0.00 sec)

```
mysql>
```

### 2. Show all details of customers who have not booked any tickets.

select \* from customer where c\_id not in (select c\_id from ticket\_booked);

```
mysql> select * from customer where c_id not in (select c_id from ticket_booked);
```

C_ID	DOB	NAME	Gender	CITY	State	country
8010	1982-04-07	Ritik Pillai	Male	Madurai	Tamil Nadu	India
8012	2007-02-07	Adity Shrama	Male	Banglore	Karnataka	India
8014	1997-09-29	Aishwarya Rai	Female	Mysore	Karnataka	India
8016	1984-05-07	Heena Khan	Female	Mumai	Maharashtra	India
8018	1995-08-31	Dishant Mehta	Male	Borivali	Maharashtra	India
8021	1998-02-03	Divya Randive	Female	Chennai	Tamil Nadu	India
8023	2011-04-21	Sneha salvi	Female	Mumbai	Maarashtra	India
8024	2013-05-22	vineet vagh	Male	Chennai	Tamil Nadu	India
8025	2014-05-01	Divya vaitya	Female	Chennai	Tamil Nadu	India
8026	2000-02-12	Bala	Male	Chennai	Tamil Nadu	India
8027	1996-05-19	Shraddha Kapoor	Female	coimbatore	Tamil Nadu	India
8028	1996-05-19	Rohit Shetty	Male	Mysore	Karnataka	India
8029	2000-07-04	Rohit Shetty	Male	Mysore	Karnataka	India
8030	2009-06-09	anisha Gupta	Female	coimbatore	Tamil Nadu	India
8031	2007-07-04	Innaya Kapoor	Female	Coimbatore	Tamil Nadu	India

15 rows in set (0.03 sec)

```
mysql>
```

**3. Show all those flights and their details which are not booked by any customer.**

select \* from flight where flight\_no not in (select flight\_no from ticket\_booked);

```
mysql> select * from flight where flight_no not in (select flight_no from ticket_booked);
+-----+-----+-----+-----+-----+-----+-----+
| Flight_no | Source | Destination | Dep_time | Arriving_time | Seat_Available | Airline_code |
+-----+-----+-----+-----+-----+-----+-----+
| 201 | Mumbai | Bangalore | 23:10:00 | 12:00:00 | 5 | 6E |
| 401 | Bangalore | Mumbai | 18:35:00 | 20:35:00 | 5 | G8 |
| 501 | Mumbai | Nagpur | 21:50:00 | 23:20:00 | 5 | SG |
| 502 | Nagpur | Mumbai | 13:35:00 | 15:00:00 | 5 | SG |
+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.03 sec)

mysql>
```

**4. Select flight\_no, their class type of customer who belongs to Mumbai and female**

select c\_ID, flight\_no, Seat\_no from Ticket\_booked where c\_id = any (select c\_id from customer where city= 'Mumbai' and gender= 'Female');

```
mysql> select c_ID, flight_no, Seat_no from Ticket_booked where c_id = any (select c_id from customer where city= 'Mumbai' and gender= 'Female');
+-----+-----+-----+
| c_ID | flight_no | Seat_no |
+-----+-----+-----+
| 8001 | 302 | 3021 |
+-----+-----+-----+
1 row in set (0.02 sec)
```

## JOINS:

### 1. Show all customers who have booked ticket and their class and ticket price.(three table join)

select ticket\_booked.c\_id, ticket\_booked.class, ticket\_booked.flight\_no, ticket\_booked.seat\_no, class.price from ticket\_booked inner join class on ticket\_booked.flight\_no = class.flight\_no and ticket\_booked.class = class.class\_type;

```
mysql> select ticket_booked.c_id, ticket_booked.class, ticket_booked.flight_no, ticket_booked.seat_no, class.price from ticket_booked inner join class on ticket_booked.flight_no = class.flight_no and ticket_booked.class = class.class_type;
```

c_id	class	flight_no	seat_no	price
8002	Business	102	1022	6814.00
8017	Business	102	1021	6814.00
8011	Business	102	1023	6814.00
8015	Business	102	1024	6814.00
8006	Economic	102	1025	3814.00
8002	Economic	103	1031	3800.00
8019	Business	301	3011	10500.00
8019	Business	202	2021	10000.00
8022	Economic	202	2022	4000.00
8015	Economic	301	3012	5000.00
8008	Economic	301	3013	5000.00
8001	Economic	302	3021	2850.00
8003	Business	302	3022	4700.00
8009	Economic	103	1031	3800.00
8013	Economic	103	1032	3800.00
8020	Economic	202	2023	4000.00
8017	Economic	202	2024	4000.00
8015	Economic	202	2025	4000.00
8011	Economic	101	1011	4500.00
8005	Economic	101	1012	4500.00
8002	Economic	101	1013	4500.00
8002	Business	302	3021	4700.00
8003	Economic	202	2021	4000.00
8004	Economic	102	1021	3814.00
8020	Economic	102	1022	3814.00
8020	Economic	302	3021	2850.00
8019	Business	302	3022	4700.00
8013	Economic	302	3023	2850.00

28 rows in set (0.01 sec)

## 2. Show flight and their airline company

select flight.flight\_no, flight.source, airline.airline\_name from flight left join airline on flight.airline\_code = airline.airline\_code;

```
mysql> select flight.flight_no, flight.source, airline.airline_name from flight left join airline on flight.airline_code = airline.airline_code;
```

flight_no	source	airline_name
101	Mumbai	Air India
102	Mumbai	Air India
103	Chennai	Air India
201	Mumbai	Indigo
202	Delhi	Indigo
301	Mumbai	Vistara
302	Bangalore	Vistara
401	Bangalore	Go First
501	Mumbai	SpiceJet
502	Nagpur	SpiceJet

10 rows in set (0.00 sec)

## 3. Show all the details of customer like customer ID, customer name, Flight number, class, price , source and destination.

select ticket\_booked.C\_ID, customer.name, flight.source, flight.destination, class.price, ticket\_booked.class from ticket\_booked inner join customer on ticket\_booked.c\_id= customer.c\_id inner join flight on ticket\_booked.flight\_no= flight.flight\_no inner join class on ticket\_booked.flight\_no = class.flight\_no and ticket\_booked.class = class.class\_type;

```
mysql> select ticket_booked.C_ID, customer.name, flight.source, flight.destination,
on ticket_booked.flight_no= flight.flight_no inner join class on ticket_booked.fli
```

C_ID	name	source	destination	price	class
8002	Mani Yadav	Mumbai	Chennai	6814.00	Business
8017	Parth Yadav	Mumbai	Chennai	6814.00	Business
8011	Ram Gopal	Mumbai	Chennai	6814.00	Business
8015	Rahul Dravid	Mumbai	Chennai	6814.00	Business
8006	Abhay Singh	Mumbai	Chennai	3814.00	Economic
8002	Mani Yadav	Chennai	Mumbai	3800.00	Economic
8019	Dishant Mehta	Mumbai	Delhi	10500.00	Business
8019	Dishant Mehta	Delhi	Mumbai	10000.00	Business
8022	Shahid Khan	Delhi	Mumbai	4000.00	Economic
8015	Rahul Dravid	Mumbai	Delhi	5000.00	Economic
8008	Rama Gopal	Mumbai	Delhi	5000.00	Economic
8001	Vaishnavi Adani	Banglore	Mumbai	2850.00	Economic
8003	Praveen Kumar	Banglore	Mumbai	4700.00	Business
8009	Anjana Nair	Chennai	Mumbai	3800.00	Economic
8013	Lara Dutta	Chennai	Mumbai	3800.00	Economic
8020	Sangeeta Naik	Delhi	Mumbai	4000.00	Economic
8017	Parth Yadav	Delhi	Mumbai	4000.00	Economic
8015	Rahul Dravid	Delhi	Mumbai	4000.00	Economic
8011	Ram Gopal	Mumbai	Delhi	4500.00	Economic
8005	Priya Randive	Mumbai	Delhi	4500.00	Economic
8002	Mani Yadav	Mumbai	Delhi	4500.00	Economic
8002	Mani Yadav	Banglore	Mumbai	4700.00	Business
8003	Praveen Kumar	Delhi	Mumbai	4000.00	Economic
8004	Ashwini Kangne	Mumbai	Chennai	3814.00	Economic
8020	Sangeeta Naik	Mumbai	Chennai	3814.00	Economic
8020	Sangeeta Naik	Banglore	Mumbai	2850.00	Economic
8019	Dishant Mehta	Banglore	Mumbai	4700.00	Business
8013	Lara Dutta	Banglore	Mumbai	2850.00	Economic

```
28 rows in set (0.00 sec)
```

## VIEW:

Create a table for customer who have booked ticket on 01-02-2023 and 02-02-2023

create view booking as select pnr\_no, c\_id, flight\_no, seat\_no, bookingdate from ticket\_booked where bookingdate between "2023-02-01" and "2023-02-02";

show tables;

```
mysql> show tables;
```

Tables_in_airline_reservation_system
airline
booking
class
customer
flight
flight_seats
ticket_booked
ticket_cancelled

```
8 rows in set (0.11 sec)
```



Select \* from booking;

```
mysql> select * from booking;
```

PNR_NO	C_ID	Flight_no	seat_no	BOOKINGDATE
900001	8002	102	1022	2023-02-02 00:00:00
900002	8017	102	1021	2023-02-02 00:00:00
900003	8011	102	1023	2023-02-02 00:00:00
900004	8015	102	1024	2023-02-02 00:00:00
900008	8019	301	3011	2023-02-01 00:00:00
900011	8015	301	3012	2023-02-01 00:00:00
900012	8008	301	3013	2023-02-01 00:00:00
900028	8020	302	3021	2023-02-01 00:00:00
900030	8019	302	3022	2023-02-01 00:00:00

```
9 rows in set (0.01 sec)
```

**2. create a view as Economic\_class for customer who had booked Economic class seats**

create view Economic\_class as select ticket\_booked.c\_id  
,ticket\_booked.flight\_no, customer.name, ticket\_booked.class from  
ticket\_booked , customer where ticket\_booked.c\_id = customer.c\_id and class =  
"Economic";

```
mysql> show tables;
```

Tables_in_airline_reservation_system
airline
booking
class
customer
economic_class
flight
flight_seats
ticket_booked
ticket_cancelled

```
9 rows in set (0.00 sec)
```

Select \* from economic\_class;

```
mysql> select * from economic_class;
```

c_id	flight_no	name	class
8006	102	Abhay Singh	Economic
8002	103	Mani Yadav	Economic
8022	202	Shahid Khan	Economic
8015	301	Rahul Dravid	Economic
8008	301	Rama Gopal	Economic
8001	302	Vaishnavi Adani	Economic
8009	103	Anjana Nair	Economic
8013	103	Lara Dutta	Economic
8020	202	Sangeeta Naik	Economic
8017	202	Parth Yadav	Economic
8015	202	Rahul Dravid	Economic
8011	101	Ram Gopal	Economic
8005	101	Priya Randive	Economic
8002	101	Mani Yadav	Economic
8003	202	Praveen Kumar	Economic
8004	102	Ashwini Kangne	Economic
8020	102	Sangeeta Naik	Economic
8020	302	Sangeeta Naik	Economic
8013	302	Lara Dutta	Economic

```
19 rows in set (0.01 sec)

mysql>
```

### Stored Procedure:

#### Seats available:

To check many how seats are available in flight.

```
CREATE DEFINER='root'@'localhost' PROCEDURE
`new_procedure`(L_Flight_no int, L_Date date)
```

```
BEGIN
```

```
declare A int;
```

```
declare B int;
```

```
set A = (Select seat_available from flight where flight_no = L_flight_no) ;
```

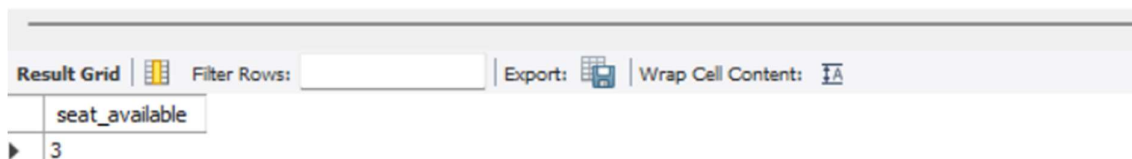
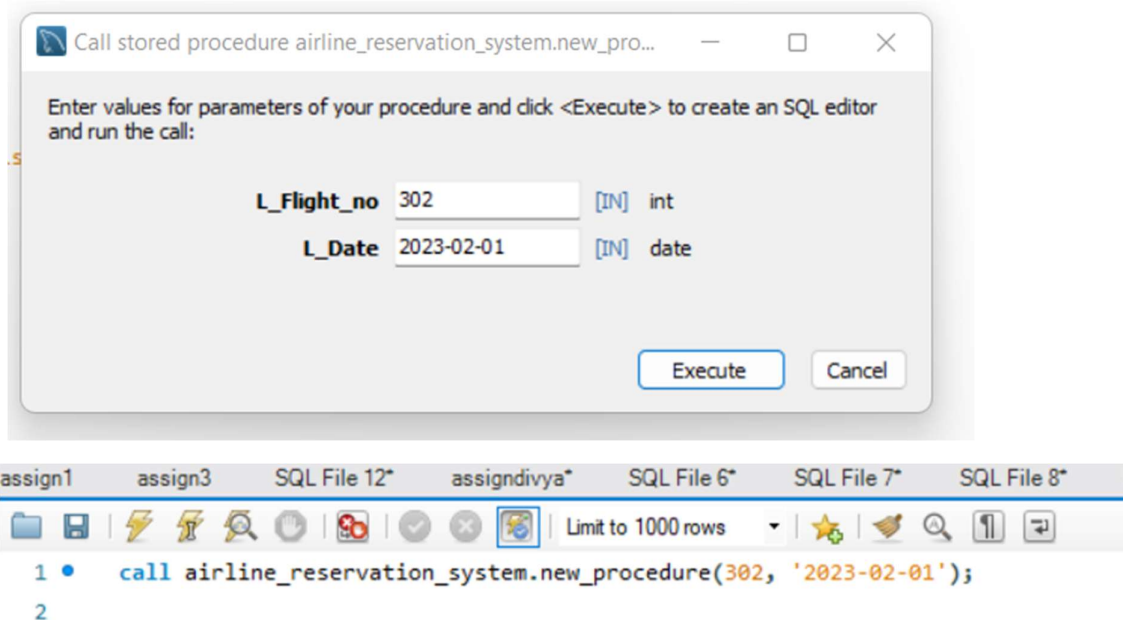
```
set B = (select count(*) from ticket_booked where flight_no = L_flight_no and
bookingdate = L_date);
```

```
SELECT (A-B) AS seat_available;
```

```
END
```

Example:

If we want to check available number of seats for flight no. 302 on 01-02-2023.



### Trigger:

If any Customer Cancelled ticket then their c\_id, PNR no and Cancellation date will directly inserted into Ticket\_cancelled table.

```
CREATE DEFINER='root'@'localhost' TRIGGER `ticket_booked_AFTER_DELETE` AFTER DELETE ON `ticket_booked` FOR EACH ROW BEGIN
    insert into ticket_cancelled values (old.PNR_NO, old.c_id, now());
END
```

If customer no 8003 want to cancel ticket of flight no 202 on dt 04-02-2023

Then

Delete from ticket\_booked where flight\_no = 202 and bookingdate= “2023-02-04”;

```
mysql> Delete from ticket_booked where flight_no = 202 and bookingdate = "2023-02-04";
Query OK, 1 row affected (0.03 sec)

mysql> show ticket_cancelled;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'show ticket_cancelled;' at line 1
mysql> select * from ticket_cancelled;
+-----+-----+-----+
| PNR_NO | C_ID | CancelledDate      |
+-----+-----+-----+
| 900025 | 8003 | 2023-01-28 23:17:13 |
+-----+-----+-----+
1 row in set (0.00 sec)
```