



Project
on
Railway Management System

CSF205 - Database Management System

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Submitted to
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Thanks for your valuable guidance and kind support.

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Project Description(Abstract)

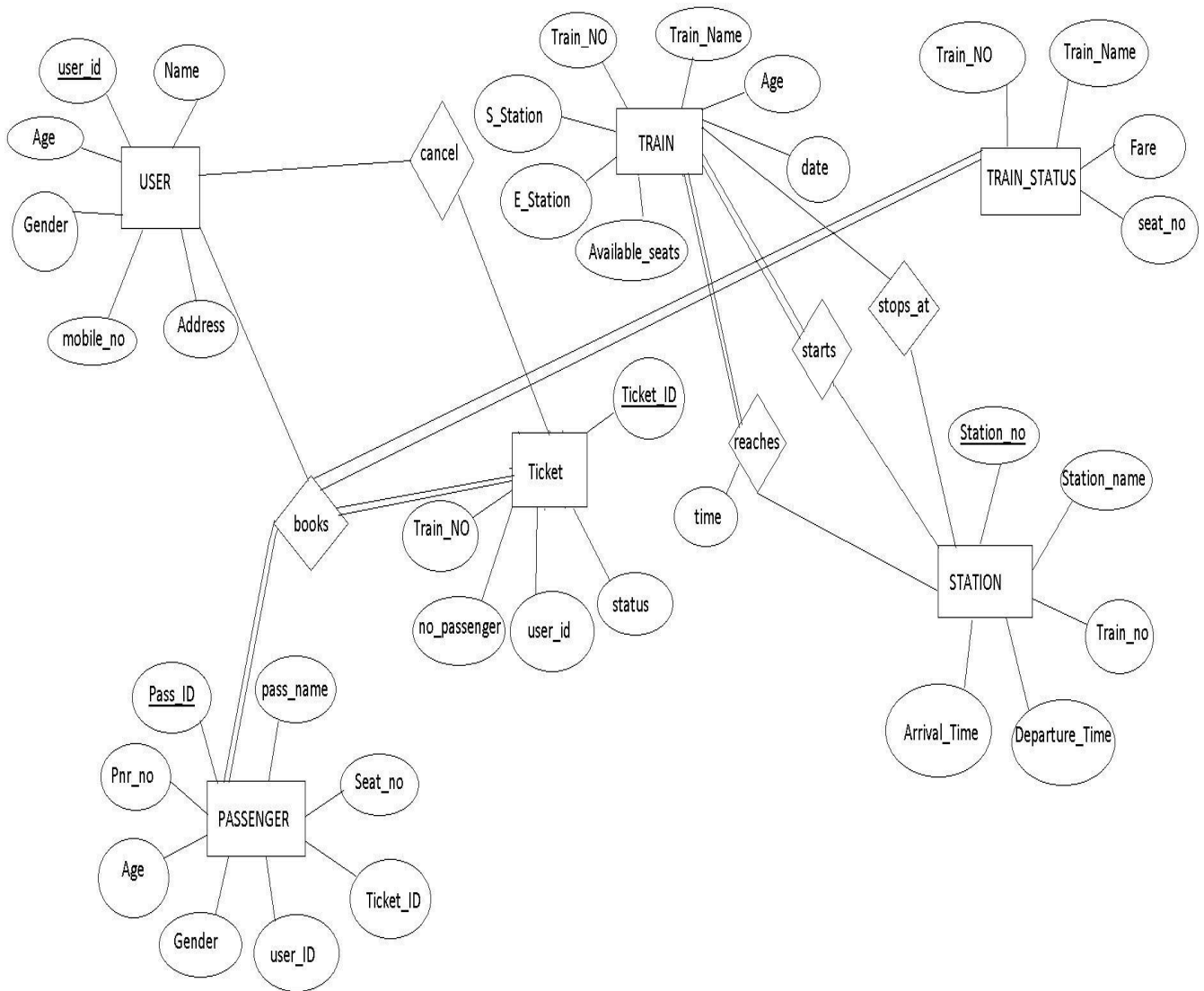
This project is about creating the database about Railway Management System. The railway management system facilitates the passengers to enquire about the trains available.

Booking and cancellation of tickets. enquire about the status of the booked ticket, etc. The aim of case study is to design and develop a database maintaining the records of different trains. Train status, and passengers. The record of train includes its number, name, whereas record of train status includes dates for which tickets are booked, total number of seats available.

Passengers can book their tickets for the train in which seats are available. For this, passenger has to provide the desired train number.

Once the train number and booking date are validated, it is checked whether the seat is available. If yes, the ticket is booked with confirm status and corresponding ticket ID is generated which is stored along with other details of the passenger. The ticket once booked can be cancelled at anytime. For this, the passenger has to provide the ticket ID (the unique key). The ticket ID is searched and the corresponding record is deleted. With this, the first ticket with waiting status also gets confirmed.

ER DIAGRAM



CREATE AND INSERT SQL QUERIES

```
mysql> use railway_management_system;
Database changed
mysql> show tables;
+-----+
| Tables_in_railway_management_system |
+-----+
| books                                |
| cancel                              |
| passenger                            |
| reaches                             |
| starts                              |
| station                             |
| stops_at                            |
| ticket                              |
| train                               |
| train_status                        |
| user                                |
+-----+
11 rows in set (0.04 sec)
```

USER TABLE:

create table user (user_id int Primary Key, Name varchar(50), Gender varchar(20), Age int, mobile_no varchar(10), Address varchar(50));

```
mysql> desc user;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| user_id    | int           | NO   | PRI | NULL    |       |
| Name       | varchar(50)   | NO   |     | NULL    |       |
| Gender     | varchar(20)   | NO   |     | NULL    |       |
| Age        | int           | YES  |     | NULL    |       |
| mobile_no  | varchar(10)   | YES  |     | NULL    |       |
| Address    | varchar(50)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.01 sec)
```

TRAIN TABLE:

create table TRAIN (Train_no int primary key,Train_name varchar(50),S_station varchar(20),E_station varchar(20),Available_seats int,date date);

```
mysql> desc train;
```

Field	Type	Null	Key	Default	Extra
Train_no	int	NO	PRI	NULL	
Train_Name	varchar(50)	NO		NULL	
S_station	varchar(20)	YES		NULL	
E_station	varchar(20)	YES		NULL	
Available_seats	int	YES		NULL	
date	date	YES		NULL	

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

STATION TABLE:

create table STATION(station_no int primary key ,Station_name varchar(50),Train_no int,Arrival_time varchar(20),Departure_time varchar(10),Foreign key(Train_no) references Train(Train_no));

```
mysql> desc station;
```

Field	Type	Null	Key	Default	Extra
Station_no	int	NO	PRI	NULL	
Station_name	varchar(20)	YES		NULL	
Train_no	int	YES	MUL	NULL	
Arrival_time	varchar(10)	YES		NULL	
Departure_time	varchar(10)	YES		NULL	

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

TRAIN STATUS TABLE:

create table TRAIN_STATUS (train_no int ,seat_no int,fare float, train_name varchar(50), foreign key(train_no) references Train(train_no));

```
mysql> desc train_status;
```

Field	Type	Null	Key	Default	Extra
train_no	int	YES	MUL	NULL	
seat_no	int	YES		NULL	
fare	float	YES		NULL	
train_name	varchar(50)	YES		NULL	

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

TICKET TABLE:

create table TICKET(Ticket_id int primary key, user_id int,status char, no_passenger int, Train_no int,constraint foreign key(user_id) references USER(user_id),constraint foreign key(train_no) references TRAIN(train_no));

```
mysql> desc passenger;
```

Field	Type	Null	Key	Default	Extra
Pass_id	int	NO	PRI	NULL	
pass_name	varchar(20)	YES		NULL	
Pnr_no	varchar(10)	YES		NULL	
Age	int	YES		NULL	
Gender	varchar(10)	YES		NULL	
user_id	int	YES	MUL	NULL	
Seat_no	int	YES		NULL	
Ticket_id	int	YES	MUL	NULL	

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


PASSENGER TABLE:

create table PASSENGERS(pass_id int primary key,pass_name varchar(20), pnr_no int, age int, gender varchar(20), user_id int,seat_no varchar(5), ticket_id int,constraint foreign key(user_id) references USER(user_id),constraint foreign key(ticket_id) references TICKET(id));

```
mysql> desc passenger;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Pass_id    | int           | NO   | PRI | NULL    |       |
| pass_name  | varchar(20)   | YES  |     | NULL    |       |
| Pnr_no     | varchar(10)   | YES  |     | NULL    |       |
| Age        | int           | YES  |     | NULL    |       |
| Gender     | varchar(10)   | YES  |     | NULL    |       |
| user_id    | int           | YES  | MUL | NULL    |       |
| Seat_no    | int           | YES  |     | NULL    |       |
| Ticket_id  | int           | YES  | MUL | NULL    |       |
+-----+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)
```

STARTS TABLE:

create table STARTS(train_no int primary key, station_no int, constraint foreign key(station_no) references STATION(station_no));

```
mysql> desc starts;
+-----+-----+-----+-----+-----+-----+
| Field      | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| train_no   | int  | NO   | PRI | NULL    |       |
| station_no | int  | YES  | MUL | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

STOPS AT TABLE:

create table STOPS_AT(train_no int, station_no int, constraint foreign key(train_no) references TRAIN(train_no),constraint foreign key(station_no) references STATION(station_no));

```
mysql> desc stops_at;
+-----+-----+-----+-----+-----+-----+
| Field      | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| train_no   | int  | YES  | MUL | NULL    |       |
| station_no | int  | YES  | MUL | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

REACHES TABLE:

create table REACHES(train_no int,station_no int,time time,constraint foreign key(train_no) references TRAIN(train_no),constraint foreign key(station_no) references STATION(station_no));

```
mysql> desc reaches;
```

Field	Type	Null	Key	Default	Extra
train_no	int	NO	PRI	NULL	
station_no	int	YES	MUL	NULL	
time	varchar(20)	YES		NULL	

3 rows in set (0.00 sec)

BOOKS TABLE:

create table BOOKS(user_id int,P ticket_id int,constraint foreign key(user_id) references USER(user_id),constraint foreign key(ticket_id) references TICKET(ticket_id));

```
mysql> desc books;
```

Field	Type	Null	Key	Default	Extra
user_id	int	YES	MUL	NULL	
ticket_id	int	YES	MUL	NULL	

2 rows in set (0.00 sec)

CANCEL TICKET:

create table CANCEL(user_id int,ticket_id int, pass_id int, constraint foreign key(ticket_id) references TICKET(ticket_id),constraint foreign key(pass_id) references PASSENGERS(pass_id),constraint foreign key(user_id) references USER(user_id));

```
mysql> desc cancel;
```

Field	Type	Null	Key	Default	Extra
user_id	int	YES	MUL	NULL	
ticket_id	int	YES	MUL	NULL	
pass_id	int	YES	MUL	NULL	

3 rows in set (0.00 sec)

INSERT VALUES IN USER TABLE:

insert into user values(1,"Rakesh Singh","M",25,"7085953455","Rudrapur"),
(2,"Mohit Arya","M",20,"9876543210","Dehradun"), (3,"Ritika Yadav","F",19,"7894561230","Bilaspur"),
(4,"Pragati Malik","f",18,"9784561230","Rampur"), (5,"Ayush Tiwari","m",22,"8794561230","Gonda");

```
mysql> select * from user  
-> ;
```

user_id	Name	Gender	Age	mobile_no	Address
1	Rakesh Singh	M	25	7085953455	Rudrapur
2	Mohit Arya	M	20	9876543210	Dehradun
3	Ritika Yadav	F	19	7894561230	Bilaspur
4	Pragati Malik	F	18	9784561230	Rampur
5	Ayush Tiwari	M	22	8794561230	Gonda

5 rows in set (0.04 sec)

INSERT VALUES IN TRAIN TABLE:

insert into TRAIN values (130,'Mumbai Express','mumbai','pune',211,'2022-04-11'),
(416,'Andra Pradesh Express','New Delhi','Tamil Nadu',561,'2022-04-10'),
(523,'doon Express','Dehradun','Khatgodam',212,'2022-04-09'),
(723,'Andra Pradesh Express','Hydrabad Deacn','Delhi',528,'2022-04-12'),
(724,'''gonda express','gonda','Dehradun',205,'2022-04-16');

```
mysql> select * from train;
```

Train_no	Train_Name	S_station	E_station	Available_seats	date
130	Mumbai Express	Mumbai	Pune	211	2022-04-11
416	Andra Pradesh Express	New Delhi	Tamil Nadu	561	2022-04-10
523	Doon Express	Dehradun	Khatgodam	212	2022-04-09
723	Andra Pradesh Express	Hyderabad Decan	Delhi	528	2022-04-12
724	Gonda Express	Gonda	Dehradun	205	2022-04-16

5 rows in set (0.03 sec)

INSERT VALUES IN STATION TABLE:

insert into STATION values (3001,'Hyderabad Decan',723,'8:00 PM','8:10 PM'),
(6001,'New Delhi',130,'3:00 PM','3:15 PM'), (7001,'Dehradun',523,'5:00 PM','5:15 PM'),
(8001,'Gonda',724,'6:00 PM','6:05 PM'), (9001,'Mumbai',130,'12:10 PM','12:15 PM');

```
mysql> select * from station;
```

Station_no	Station_name	Train_no	Arrival_time	Departure_time
3001	Hyderabad Deccan	723	8:00 PM	8:10 PM
6001	New Delhi	130	3:00 PM	3:15 PM
7001	Dehradun	523	5:00 PM	5:15 PM
8001	Gonda	724	6:00 AM	6:05 AM
9001	Mumbai	130	12:10 PM	12:15 PM

5 rows in set (0.02 sec)

INSERT VALUES IN TRAIN STATUS TABLE:

insert into TRAIN_STATUS values(523,81,150,'Doon Express'),
(523,4,150,'Doon Express'), (130,10,75,'Mumbai Express'),
(130,67,75,'Mumbai Express'), (130,56,75,'Mumbai Express'),
(130,70,75,'Mumbai Express'), (723,42,750,'Andra Pradesh Express'),
(723,20,750,'Andra pradesh Express'), (723,87,750,'Andra Pradesh Express'),
(724,55,220,'Gonda Express'), (416,34,880,'Andra pradesh Express');

```
mysql> select * from train_status;
```

train_no	seat_no	fare	train_name
523	81	150	Doon Express
523	4	150	Doon Express
130	10	75	Mumbai Express
130	67	75	Mumbai Express
130	56	75	Mumbai Express
130	70	75	Mumbai Express
723	42	750	Andra Pradesh Express
723	20	750	Andra Pradesh Express
723	87	750	Andra Pradesh Express
724	55	220	Gonda Express
416	34	880	Andra Pradesh Express

11 rows in set (0.05 sec)

INSERT VALUES IN TICKET TABLE:

insert into TICKET values (101,4,2,523,"confirmed"), (122,1,1,416,"waiting"), (143,2,4,138,"confirmed"), (152,3,3,723,"confirmed"), (252,5,1,724,"confirmed");

```
mysql> select * from ticket;
```

Ticket_id	User_id	no_passenger	Train_no	Status
101	4	2	523	Confirmed
122	1	1	416	Waiting
143	2	4	130	Confirmed
152	3	3	723	Confirmed
252	5	1	724	Confirmed

5 rows in set (0.06 sec)

INSERT VALUES IN PASSENGER TABLE:

insert into PASSENGERS values (66,"Rani Mukharji",663345,'F',3,42 ,152),
(70,"Dharm Pratap",111222,'M',3,20 ,152), (80,"Mohit Chikara",693693,'M',5,55 ,252),
(100,"Miland Gaba",007878,'M',2,10 ,143), (111,"Sikha Pant",456789,'F',2,67 ,143),
(114,"Neha Kakkar",754484,'F',3,87 ,152), (121,"Mohit singh",987658,'M',1,34 ,122),
(130,"Nitin uppal",908754,'M',4,81 ,101), (165,"Rakesh singh",567324,'M',4,4 ,101),
(178,"Rohit sharma",670987,'M',2,56,143), (191,"Neha Aggrawal",342134,'F',2,70 ,143);

```
mysql> select * from passenger;
```

Pass_id	pass_name	Pnr_no	Age	Gender	user_id	Seat_no	Ticket_id
66	Rani Mukharji	663345	44	F	3	42	152
70	Dharm pratap	111222	19	M	3	20	152
80	Mohit Chikara	693693	30	M	5	55	252
100	Milland Gaba	007878	27	M	2	10	143
111	Sikha Pant	456789	18	F	2	67	143
114	Neha Kakkar	754484	25	F	3	87	152
121	Mohit Singh	987658	23	M	1	34	122
130	Nitin Uppal	908745	19	M	4	81	101
165	Rakesh Singh	567324	34	M	4	4	101
178	Rohit Sharma	670987	45	M	2	56	143
191	Neha Aggrawal	342134	24	F	2	70	143

11 rows in set (0.02 sec)

INSERT VALUES IN STARTS TABLE:

insert into STARTS values (723,3001), (523,7001);

```
mysql> select * from starts;
+-----+-----+
| train_no | station_no |
+-----+-----+
|      723 |      3001 |
|      523 |      7001 |
|      724 |      8001 |
|      130 |      9001 |
+-----+-----+
4 rows in set (0.02 sec)
```

INSERT VALUES IN STOPS AT TABLE:

insert into STOPS_AT values (130,9001), (724,8001), (523,7001), (723,3001);

```
mysql> select * from stops_at;
+-----+-----+
| train_no | station_no |
+-----+-----+
|      130 |      9001 |
|      724 |      8001 |
|      523 |      7001 |
|      723 |      3001 |
+-----+-----+
4 rows in set (0.01 sec)
```

INSERT VALUES IN REACHES TABLE:

insert into REACHES values (130,9001,'12:10 Pm'),
(523,7001,'5:00 Pm'), (723,3001,'8:00 Pm'), (724,8001,'6:00 Pm');

```
mysql> select * from reaches;
+-----+-----+-----+
| train_no | station_no | time      |
+-----+-----+-----+
|      130 |      9001 | 12:10 PM |
|      523 |      7001 | 5:00 PM  |
|      723 |      3001 | 8:00 PM  |
|      724 |      8001 | 6:00 PM  |
+-----+-----+-----+
4 rows in set (0.01 sec)
```

INSERT VALUES IN BOOKS TABLE:

insert into BOOKS values (4,101),(1,122), (2,143), (3,152), (5,252);

```
mysql> select * from books;
+-----+-----+
| user_id | ticket_id |
+-----+-----+
|      4 |      101 |
|      1 |      122 |
|      2 |      143 |
|      3 |      152 |
|      5 |      252 |
+-----+-----+
5 rows in set (0.01 sec)
```

INSERT VALUES IN CANCEL TABLE:

insert into CANCEL values (3,152,66), (1,122,121), (2,143,191);

```
mysql> select * from cancel;
+-----+-----+-----+
| user_id | ticket_id | pass_id |
+-----+-----+-----+
|      3 |      152 |      66 |
|      1 |      122 |     121 |
|      2 |      143 |     191 |
+-----+-----+-----+
3 rows in set (0.05 sec)
```


QUERY PERFORMED

1. print user id and Name of all those user who booked tickets for 'Andra Pradesh Express'.

```
mysql> select u.user_id,u.name from user u,train t,ticket tc where u.user_id=tc.user_id and t.train_no=tc.train_no and t.train_name like 'Andra Pradesh Express';
```

user_id	name
1	Rakesh Singh
3	Ritika Yadav

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

2. print details of passengers travelling under ticket number '143'.

```
mysql> select * from passenger where ticket_id like 143;
```

Pass_id	pass_name	Pnr_no	Age	Gender	user_id	Seat_no	Ticket_id
100	Milland Gaba	007878	27	M	2	10	143
111	Sikha Pant	456789	18	F	2	67	143
178	Rohit Sharma	670987	45	M	2	56	143
191	Neha Aggrawal	342134	24	F	2	70	143

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

3. Display all those train numbers which reach station number '523'.

```
mysql> select t.* from train t,station s,reaches r where t.train_no=r.train_no and r.station_no=s.station_no and s.station_name like 'dehradun';
```

Train_no	Train_Name	S_station	E_station	Available_seats	date
523	Doon Express	Dehradun	Khatgodam	212	2022-04-09

```
1 row in set (0.00 sec)
```

4. Display time at which train number---- reaches station number-----.

```
mysql> select r.*,s.station_name from reaches r,station s where r.station_no=s.station_no;
```

train_no	station_no	time	station_name
130	9001	12:10 PM	Mumbai
523	7001	5:00 PM	Dehradun
723	3001	8:00 PM	Hyderabad Deccan
724	8001	6:00 PM	Gonda

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


5.Display details of all these users who canceled tickets for train number----

```
mysql> select u.* from user u,cancel c,ticket t where c.user_id=u.user_id and c.ticket_id=t.ticket_id ;
```

user_id	Name	Gender	Age	mobile_no	Address
3	Ritika Yadav	F	19	7894561230	Bilaspur
1	Rakesh Singh	M	25	7085953455	Rudrapur
2	Mohit Arya	M	20	9876543210	Dehradun

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

6. Display the train number with increasing order of the fare--.

```
mysql> select ts.train_no,ts.fare,t.train_name from train_status ts,train t where t.train_no=ts.train_no order by fare asc;
```

train_no	fare	train_name
130	75	Mumbai Express
130	75	Mumbai Express
130	75	Mumbai Express
130	75	Mumbai Express
523	150	Doon Express
523	150	Doon Express
724	220	Gonda Express
723	750	Andra Pradesh Express
723	750	Andra Pradesh Express
723	750	Andra Pradesh Express
416	880	Andra Pradesh Express

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

7. Display passenger details for train 'Doon Express'.

```
mysql> select p.* from passenger p,train t,ticket tc where tc.train_no=t.train_no and tc.ticket_id=p.ticket_id and t.train_name like 'doon express';
```

Pass_id	pass_name	Pnr_no	Age	Gender	user_id	Seat_no	Ticket_id
130	Nitin Uppal	908745	19	M	4	81	101
165	Rakesh Singh	567324	34	M	4	4	101

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

8.Display the details of all those passengers whose status is confirmed .

```
mysql> select t.* from ticket t where t.status like 'confirmed';
```

Ticket_id	User_id	no_passenger	Train_no	Status
101	4	2	523	Confirmed
143	2	4	130	Confirmed
152	3	3	723	Confirmed
252	5	1	724	Confirmed

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

9. Display the details of all those passengers whose status is confirmed for train number '130'.

```
mysql> select t.* from ticket t where t.status like 'confirmed' and t.train_no=130;
+-----+-----+-----+-----+-----+
| Ticket_id | User_id | no_passenger | Train_no | Status |
+-----+-----+-----+-----+-----+
| 143 | 2 | 4 | 130 | Confirmed |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

10. Display details of train number with passenger name for fare greater than 500.

```
mysql> select t.*,p.pass_name ,p.ticket_id from train_status t,passenger p where t.seat_no=p.seat_no and t.fare>500;
+-----+-----+-----+-----+-----+-----+
| train_no | seat_no | fare | train_name | pass_name | ticket_id |
+-----+-----+-----+-----+-----+-----+
| 723 | 42 | 750 | Andra Pradesh Express | Rani Mukharji | 152 |
| 723 | 20 | 750 | Andra Pradesh Express | Dharm pratap | 152 |
| 723 | 87 | 750 | Andra Pradesh Express | Neha Kakkar | 152 |
| 416 | 34 | 880 | Andra Pradesh Express | Mohit Singh | 122 |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

11. Display details of train with passenger name and ticket id.

```
mysql> select t.*,p.pass_name ,p.ticket_id from train_status t,passenger p where t.seat_no=p.seat_no;
+-----+-----+-----+-----+-----+-----+
| train_no | seat_no | fare | train_name | pass_name | ticket_id |
+-----+-----+-----+-----+-----+-----+
| 723 | 42 | 750 | Andra Pradesh Express | Rani Mukharji | 152 |
| 723 | 20 | 750 | Andra Pradesh Express | Dharm pratap | 152 |
| 724 | 55 | 220 | Gonda Express | Mohit Chikara | 252 |
| 130 | 10 | 75 | Mumbai Express | Milland Gaba | 143 |
| 130 | 67 | 75 | Mumbai Express | Sikha Pant | 143 |
| 723 | 87 | 750 | Andra Pradesh Express | Neha Kakkar | 152 |
| 416 | 34 | 880 | Andra Pradesh Express | Mohit Singh | 122 |
| 523 | 81 | 150 | Doon Express | Nitin Uppal | 101 |
| 523 | 4 | 150 | Doon Express | Rakesh Singh | 101 |
| 130 | 56 | 75 | Mumbai Express | Rohit Sharma | 143 |
| 130 | 70 | 75 | Mumbai Express | Neha Aggrawal | 143 |
+-----+-----+-----+-----+-----+-----+
11 rows in set (0.00 sec)
```

12. Display Max, Min and AVG fare of trains.

```
mysql> select max(fare),min(fare),avg(fare) from train_status;
+-----+-----+-----+
| max(fare) | min(fare) | avg(fare) |
+-----+-----+-----+
| 880 | 75 | 359.09090909090907 |
+-----+-----+-----+
1 row in set (0.04 sec)
```

13. Display Name of trains

```
mysql> select distinct train_name from train;
+-----+
| train_name |
+-----+
| Mumbai Express |
| Andra Pradesh Express |
| Doon Express |
| Gonda Express |
+-----+
4 rows in set (0.01 sec)
```

14. Display train number and station name where arrival time is '5:00 PM'.

```
mysql> select train_no ,station_name from station where arrival_time='5:00 PM';
+-----+-----+
| train_no | station_name |
+-----+-----+
| 523 | Dehradun |
+-----+-----+
1 row in set (0.00 sec)
```

15. Display the Date, train name , train number and available seats where train start from 'mumbai' and end at 'pune'.

```
mysql> select date,train_no, train_name,available_seats from train where s_station='mumbai' and e_station='pune';
+-----+-----+-----+-----+
| date | train_no | train_name | available_seats |
+-----+-----+-----+-----+
| 2022-04-11 | 130 | Mumbai Express | 211 |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

16. Display total number of booked seats in mumbai express.

```
mysql> select count(no_passenger) as 'booked_seat_in_mumbai' from ticket where train_no=130;
+-----+
| booked_seat_in_mumbai |
+-----+
| 1 |
+-----+
1 row in set (0.01 sec)
```


CONCLUSION

It was a wonderful and learning experience for us while working on this project .this project took us through the various faces of project development and gave us real insight into the world of railway database management system.

The joy of work and the thrill involved while tackling the various problems and challenges gave us a feel of developers industry.

We enjoyed each and every bit of work we had put into this project.

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