DEPARTMENT OF ELECTRONIC COMMUNICATION ENIGNNERING

COURSE CODE-INT306

DATA BASE MANGEMENT SYSTEM

PROJECT ON

RAILWAY RESERVATION SYSTEM

SUBMITTED BY:

NAME	REG NO	SECTION
KANCHARLA REHIT	12005695	E2002

DECLARATION

I DECLARE THIS PROJECT “RAILWAY RESERVATION SYSTEM” WAS DONE BY KANCHARLA REHIT ON BEHALF OF DR. BALRAJ SINGH

TABLE OF CONTENT

ABSTRACT

IN THIS PROJECT BY DEVOLPING RAILWAY RESERVATION SYSTEM THE USER CAN BOOK TICKETS FROM ONLINE .

THE INDIAN RAILWAY IS SECOND LARGEST RAILWAY IN THE WORLD. IN THIS RAILWAY IT TAKE TIME TOO BOOK TICKET FROM RAILWAY OFFICE SO THIS “RAILWAY RESERVATION SYSTEM” USEFUL FOR THE CITIZIENS TO BOOK TICKETS AND OTHER ADVANTAGES VIA ONLINE PLATFORMS LIKE IRCTC.

INTRODUCTION

The main purpose of maintaining data base for railway reservation system is to reduce the manual errors involved in the booking and cancelling of tickets and it convient for the user and provides to maintain the data about their customers and also about seats available at them due to automation many loopholes that exist in the manual maintenance of the records can be removed .

PROJECT DESCRIPTION

This project is about creating the data base about railway reservation system

The railway reservation system facilities the passenger to enquire about trains available on source of destination ,booking and cancellation of tickets .

The aim of this project is reduce human errors while booking or cancellation of tickets and the data base stores the records

Passangers can book their tickets for their train in which seats are available .

List of assumption snice the reservation system is very large in reality it is not feasible to develop the case study to extend

And prepare documentation at that level .therefore a small samples case study has been created to demonstrate the working of the reservation system.

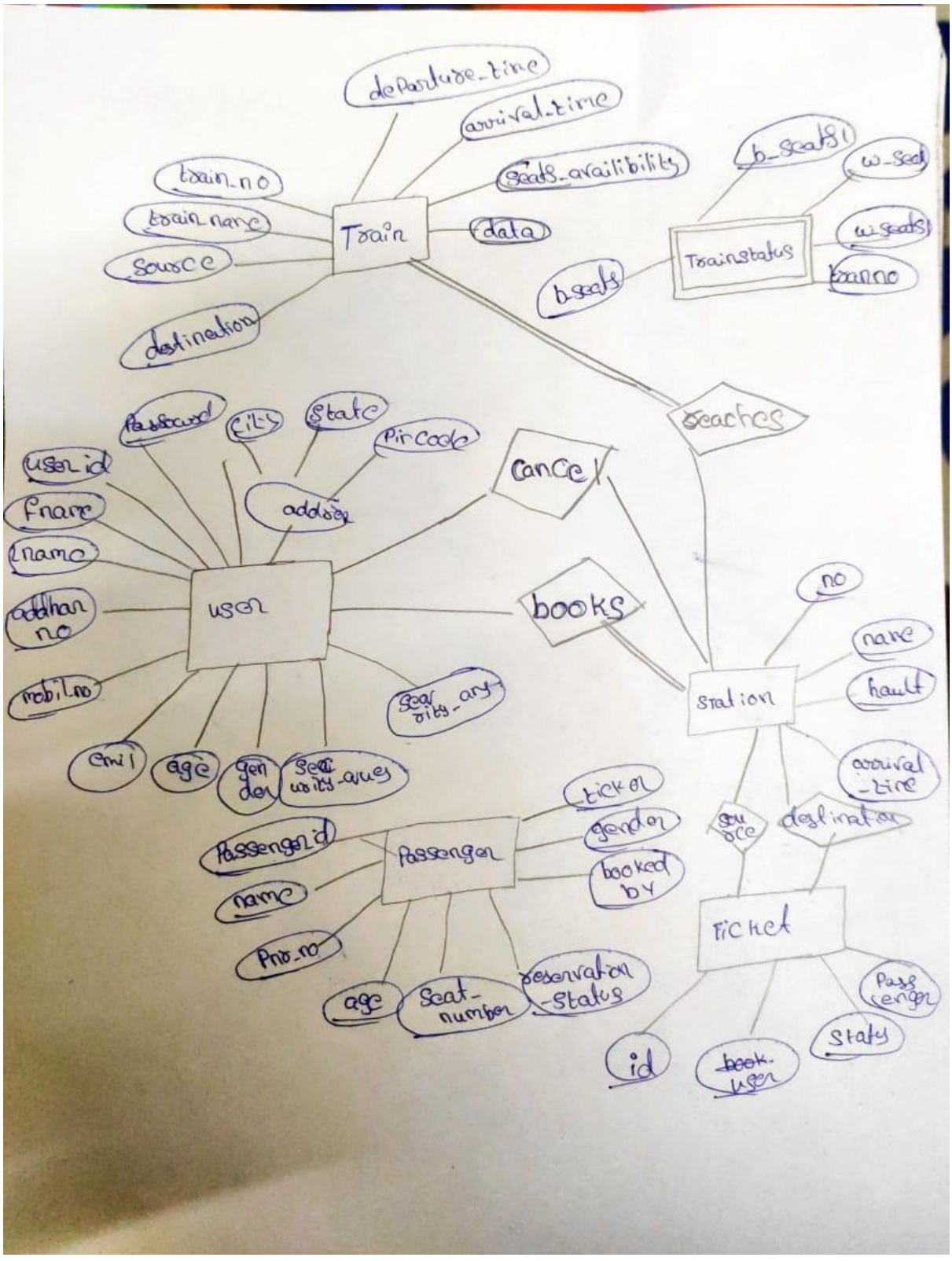
- The number of trains has been restrictrd
- The booking is open only for next seven days from current date
- The total number of tickets that has can be given the status of wating
- The in -between stoppage stations and their bookings are not considered

LIST OF ENTITIES AND ATTRIBUTES

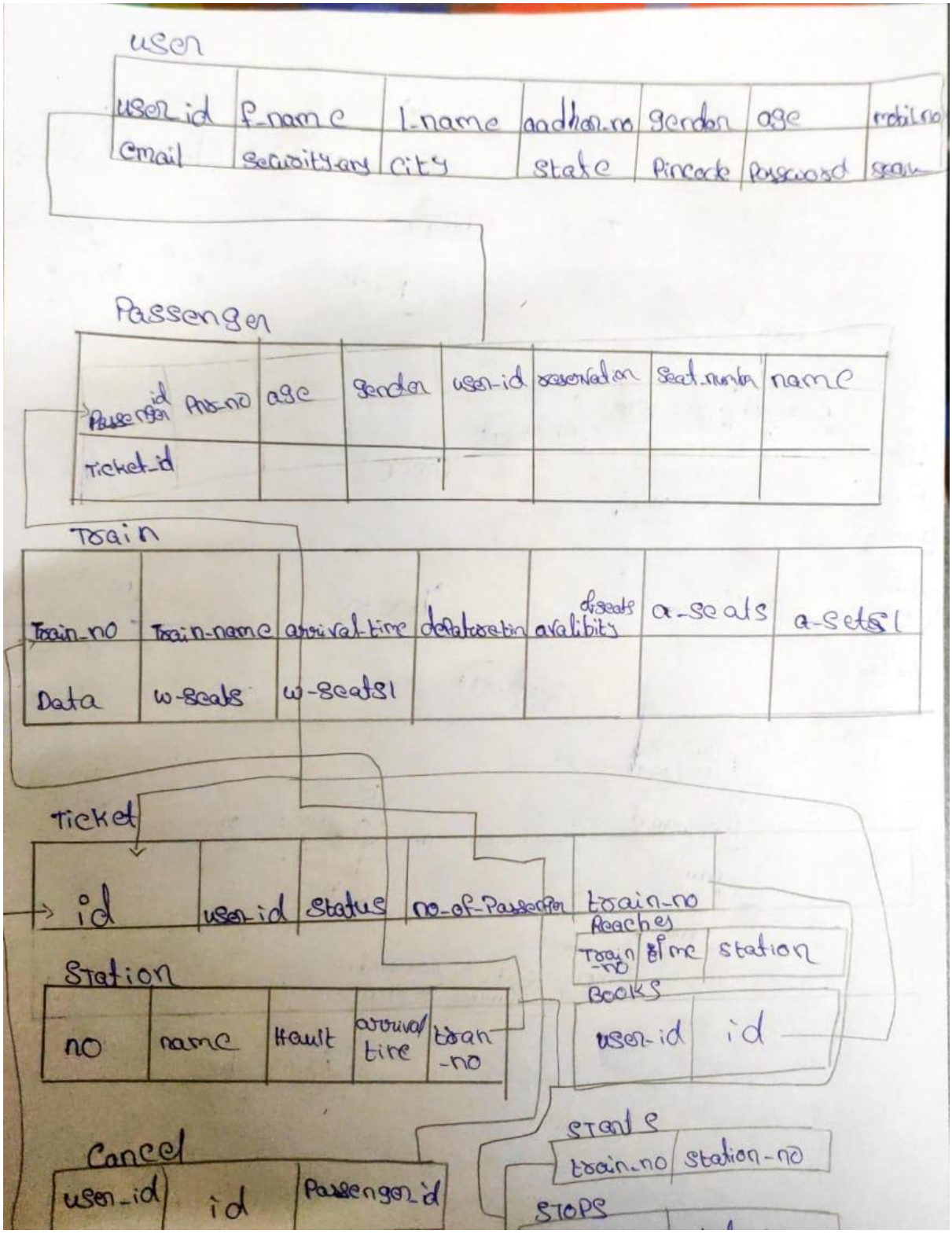
ENTITES	ATTRIBUTES
USER4	**USER.ID** Password First _name Last _name Age Gender Email Phone no Addhar City Pin code Security _ques Security _ans
Passenger	**Passenger_id** Name Gender Age Seat _no Booked _by Reservation _statues
Train	**Train _no** Train name Train no Source Destination Arrival time Departure time

	Availability of seats
Station	**Name** Train no Arravial time Hault
Ticket	**Id** Train no Booked user Statues No of passengers

E-R DIAGRAM


departure_time
arrival_time
train_no
train_name
source
destination
Train
seats_availibilities
data
b_seats1
w_seat
w_seats
train no
Trainstatus
b_seats
Searches
Password
file
State
Pincode
user_id
fname
lname
addhar no
mobil no
email
age
gender
address
Cancel
user
books
station
no
name
halt
arrival_time
source
destination
Ticket
Passenger
ticket
gender
booked by
Passenger id
name
Pno_no
age
Seat-number
reservation-status
id
book-user
Status
Passenger

SCHEMA DIAGRAM



CREATE &INSERT SQL VALUES

TABLE 1

```
CREATE TABLE USER4
(
 USER_ID NUMBER PRIMARY KEY,
FNAME  VARCHAR(50),
LNAME  VARCHAR(50),
ADHAR VARCHAR(20),
GENDER CHAR,
AGE NUMBER,
 MOBILE_NO VARCHAR(50),
 CITY VARCHAR(50),
 STATE VARCHAR(50),
 PIN_CODE NUMBER
)
```

TABLE 2

```
CREATE TABLE TRAIN
(
 TRAIN_NO NUMBER PRIMARY KEY,
TRAIN_NAME  VARCHAR(50),
ARRIVAL_TIME  VARCHAR(50),
DEPATURE_TIME VARCHAR(20),
```

```
SEATS_REMAING NUMBER,
DATE1 VARCHAR(50)
)
```

TABLE 3

```
CREATE TABLE STATION2
(
   NO NUMBER,
  SNAME VARCHAR(50),
  HAULT NUMBER,
  ARRAVIAL_TIME NUMBER,
  TRAIN_NO NUMBER
  )
  CONSTARINT FOREIGN KEY(TRAIN_NO) REFERENCES
TRAIN(TRAIN_NO)
```

TABLE 4

```
CREATE TABLE PASSENGER1
(
 PASSENGER_ID NUMBER PRIMARY KEY,
 AGE NUMBER,
 PNR_NO VARCHAR(50),
 GENDER CHAR,
```

```
 USER_ID NUMBER,
 RESERVATION_STATUES VARCHAR(20),
 SEAT_NUMBER VARCHAR(5),
 PNAME VARCHAR(50),
 TICKET_ID NUMBER
 )
 CONSTRAINT FOREIGN KEY(USER_ID)REFERENCES
USER4(USER_ID),
 CONSTRAINT FOREIGN KEY(TICKET_ID)REFERENCES
TICKET(ID)
```

TABLE 5

```
CREATE TABLE TICKET1
(
 IID NUMBER PRIMARY KEY,
 USER_ID VARCHAR(20),
 STATUES VARCHAR(10),
 PASSENGERS_NO VARCHAR(20),
 TRAIN_NO NUMBER
 )
 CONSTRAINT FOREIGN KEY(USER_ID)REFERENCES
USER4(USER_ID),
```

```
 CONSTRAINT FOREIGN KEY(TRAIN_NO)REFERENCES
TRAIN1(TRAIN_NO)
```

TABLE 6

```
  CREATE TABLE TRAIN_STATUES1
(
 TRAIN_NO NUMBER PRIMARY KEY,
 B_SEATS NUMBER,
 B_SEATS1 NUMBER,
 W_SEATS NUMBER,
 W_SEATS1 NUMBER
 )
```

TABLE 7

```
  CREATE TABLE REACHES
(
TRAIN_NO NUMBER,
STATION_NO NUMBER
)
```

TABLE 8

```
CREATE TABLE CANCEL
(
```

```
USER_ID NUMBER,
PASSENGE_ID NUMBER,
PNAME VARCHAR(50),
CITY VARCHAR(20)
)
```

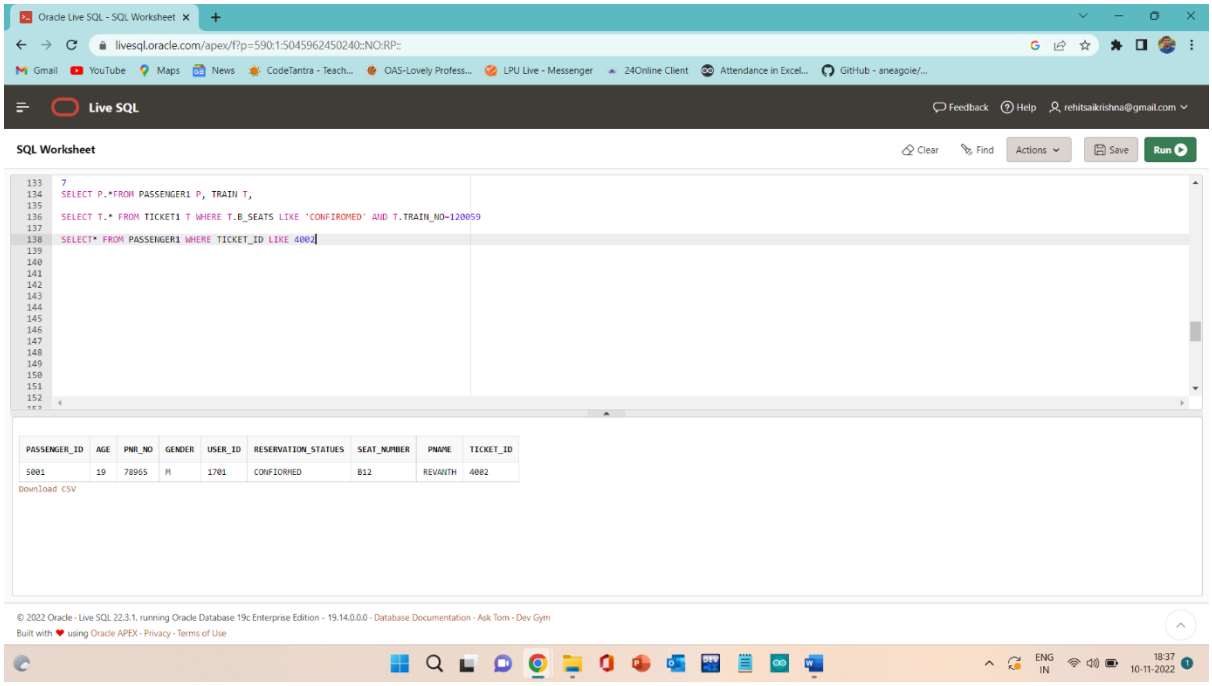
INSERT VALUES

```
INSERT INTO  USER4 VALUES(
1701,'KANCHARLA','REHIT',8820,'M',19,77320,'JALANDHAR','
PUNJAB', 144414)
INSERT INTO  USER4 VALUES(
1702,'KANCHARLA','REVANTH',8745,'M',19,8466,'JALANDHA
R','PUNJAB', 144414)
SELECT*FROM USER4

INSERT INTO TRAIN
VALUES(120059,'HUMSAFAR',1030,3030,38,'DEC16')
SELECT*FROM TRAIN

INSERT INTO STATION2 VALUES(145, 'JALANDHAR CANTT',
10, 1030, 120059)
INSERT INTO STATION2 VALUES(145, 'JALANDHAR CANTT',
15, 1035, 120078)
```

```
SELECT*FROM STATION2

INSERT INTO TRAIN_STATUES1 VALUES(120059,12,13,2,3)

SELECT*FROM TRAIN_STATUES1

INSERT INTO PASSENGER1
VALUES(5001,19,78965,'M',1701,'CONFIORMED','B12','REVA
NTH',4002)

SELECT*FROM PASSENGER1

INSERT INTO TICKET1
VALUES(4002,1701,'CONFIROMED',1,120059)

SELECT*FROM TICKET1

INSERT INTO REACHES VALUES(120059,143)

SELECT*FROM REACHES

INSERT INTO CANCEL1 VALUES(1701,4002,5001)

SELECT*FROM CANCEL1
```

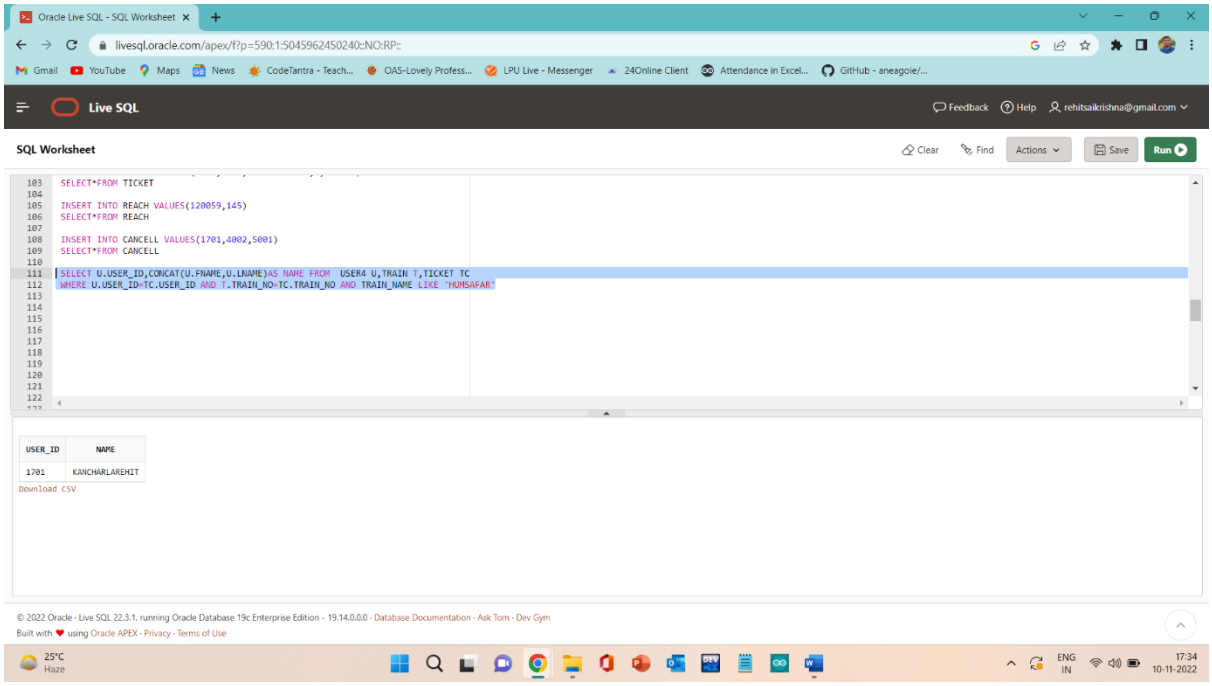
QUERIES OUTPUTS

1 PRINT DETAILS OF PASSENGER TRAVELLING UNDER TICKET NO 4002

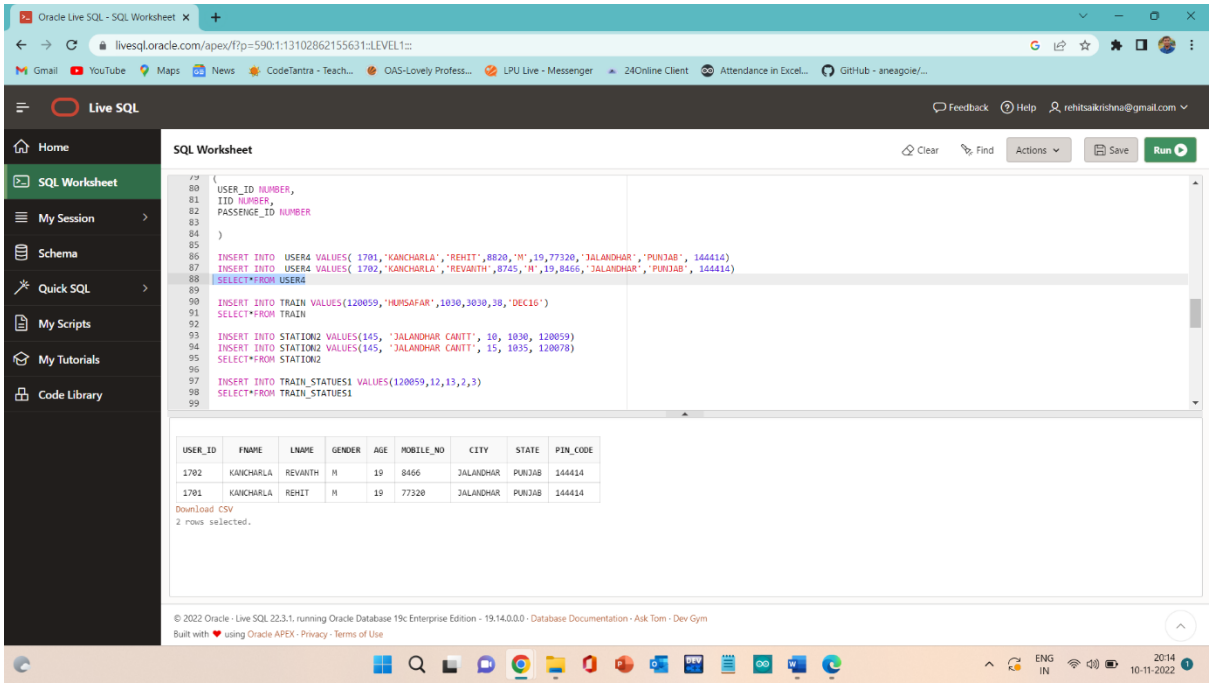


2 PRINT USER_IDAND NAME OF ALL THOSE USER WHO BOOKED TICKET HUMSAFAR

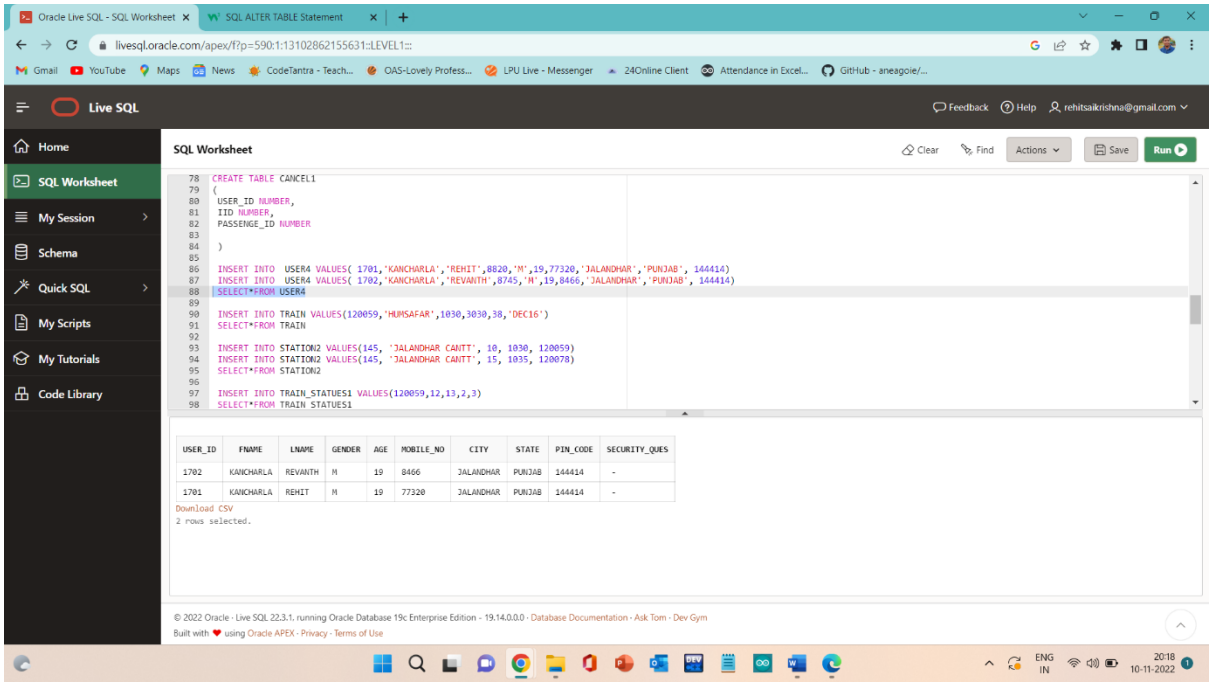
```
SELECT U.USER_ID,CONCAT(U.FNAME,U.LNAME)AS
NAME FROM  USER4 U,TRAIN T,TICKET TC
 WHERE U.USER_ID=TC.USER_ID AND
T.TRAIN_NO=TC.TRAIN_NO AND TRAIN_NAME LIKE
'HUMSAFAR'
```



3 DROP A COLOUMN IN USER4 TABLE



4 ADD AN COLOUMN IN A TABLE



CONCLUSION

IN THIS PROJECT RAILWAY RESERVATION SYSTEM WE HAVE STORED ALL THE INFORMATION ABOUT THE TRAINS SCHEDULE AND THE USERS BOOKING TICKETS AND EVEN STATUES FROM THEIR PLACE PLACE ITSELF IT AVOIDS IN CONVINIENCES OF GOING TO RAILWAY STATION FOR EACH AND EVERY QUERY THEY GET