SQL PROJECT

Railway Management System

❖ Abstract :-

The Railway reservation system facilities the passenger to enquired about the trains available on the basis of source and destination, booking and cancellation of tickets, etc.

The aim of the case study is to design and developed the database maintaining the records of different trains and passengers.

This project contains introduction to railway reservation system.it is the computerized system of reserving the seat of train seat in advance.it is the mainly used for long route online reservation has made the process for the reservation of seat very much easier than ever before.

❖ Aim of Project –

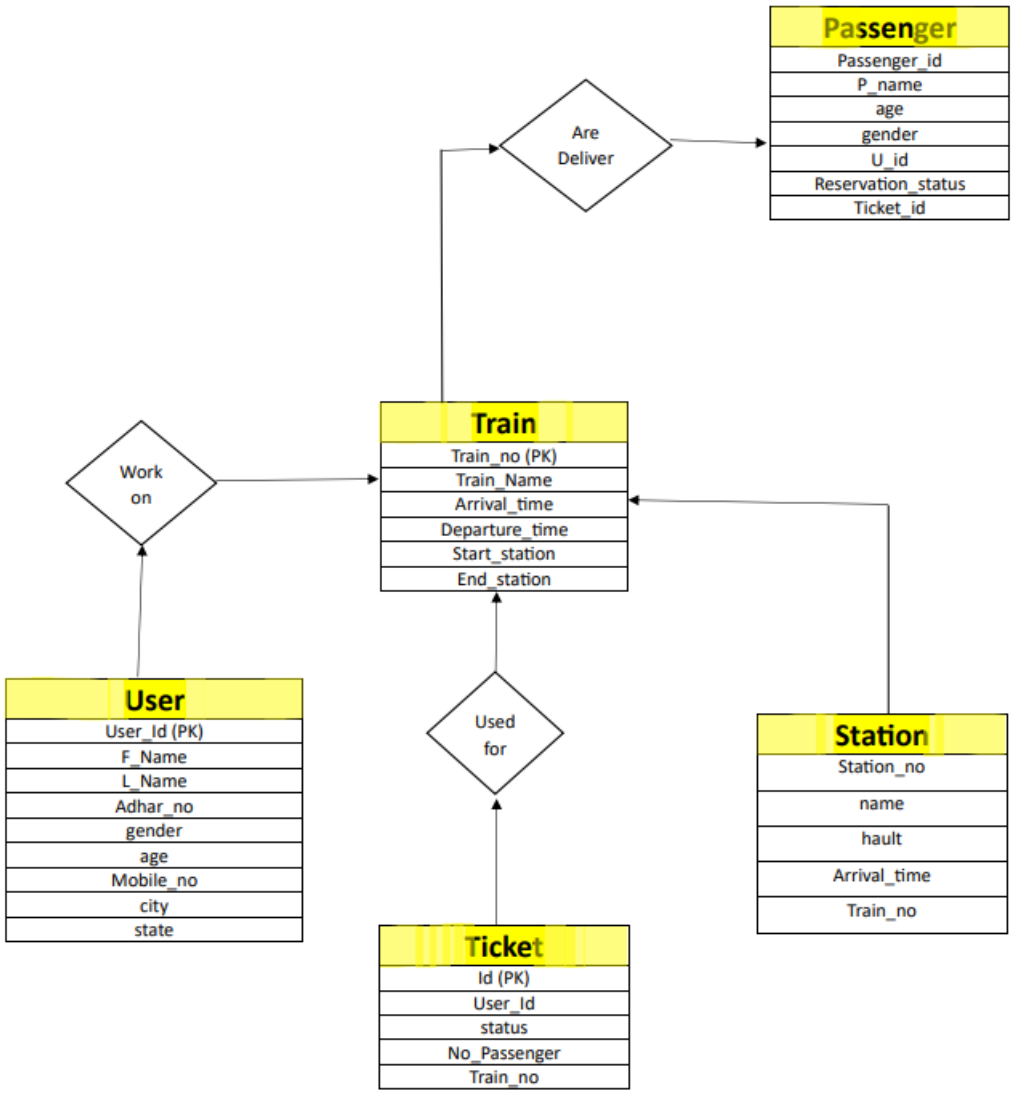
The main aim of this project is to develop a database maintaining the records of different trains and passengers, etc.

This project contains computerized system of reserving the seat of train seat in advanced.

❖ Introduction-

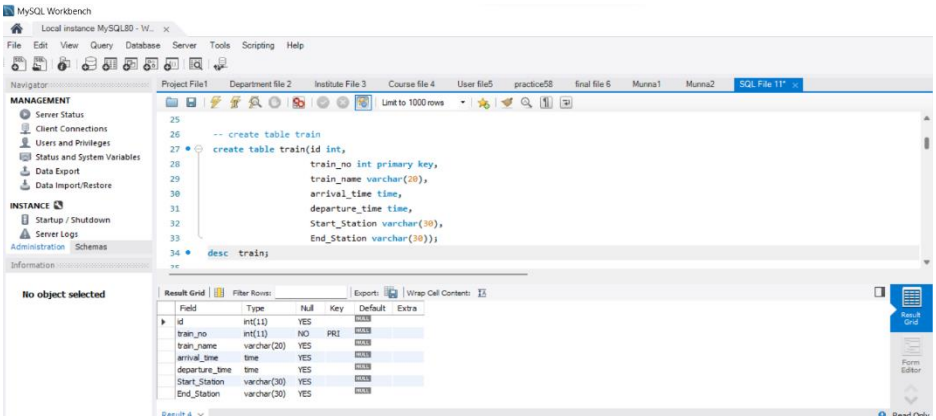
The main purpose of maintain database for railway reservation system is to reduce the manual errors involved in the booking and cancelling of tickets and make it convenient for the customer and providers to maintain the data about their customers and also about the seat available at them. due to automation many loopholes that exist in the manual maintenance of the record can be removed. The speed of obtaining and processing data will be fast. for future expansion the purposed system can be web enabled so that clients can make various enquiries about train between station due to this, sometimes a lot of problems occurs and they are facing many disputes with customers. To solve the above problem, we design database which includes customer details, availability of seat in trains, number of trains and their details.

ER Diagram:

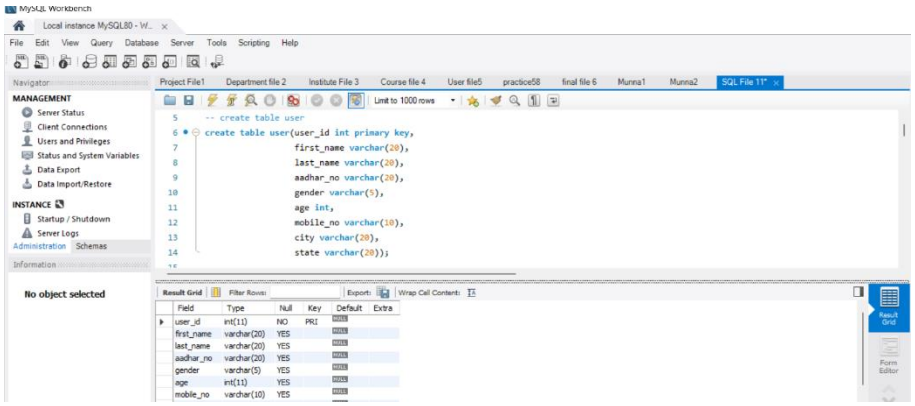

Passenger
Passenger_id
P_name
age
gender
U_id
Reservation_status
Ticket_id
Are
Deliver
Train
Train_no (PK)
Train_Name
Arrival_time
Departure_time
Start_station
End_station
Work
on
User
User_Id (PK)
F_Name
L_Name
Adhar_no
gender
age
Mobile_no
city
state
Used
for
Station
Station_no
name
hault
Arrival_time
Train_no
Ticket
Id (PK)
User_Id
status
No_Passenger
Train_no

STRUCTURE OF TABLES

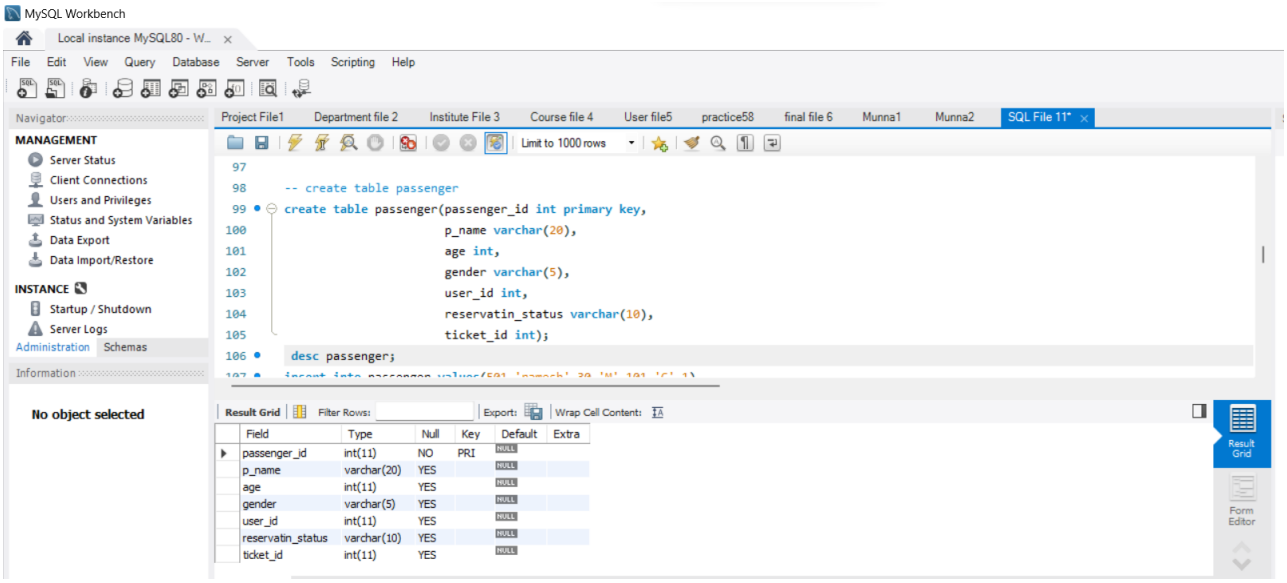
Train table -



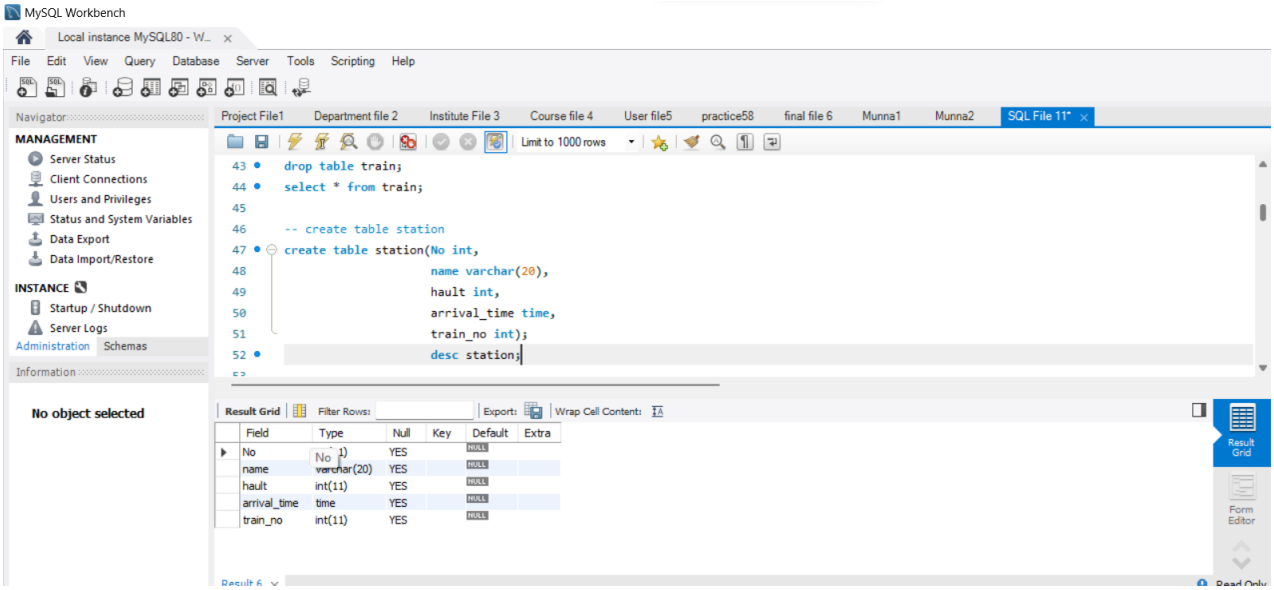
User table –



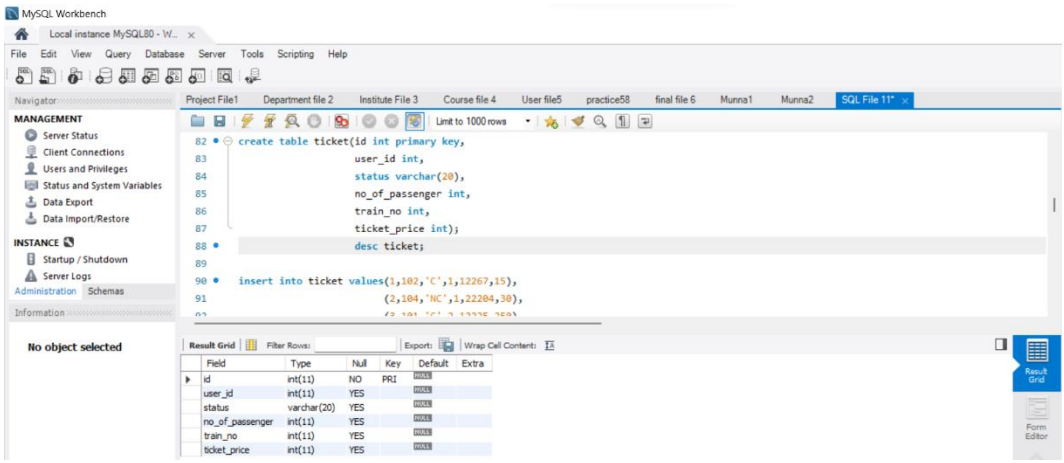
Passengers Table –



Station table –

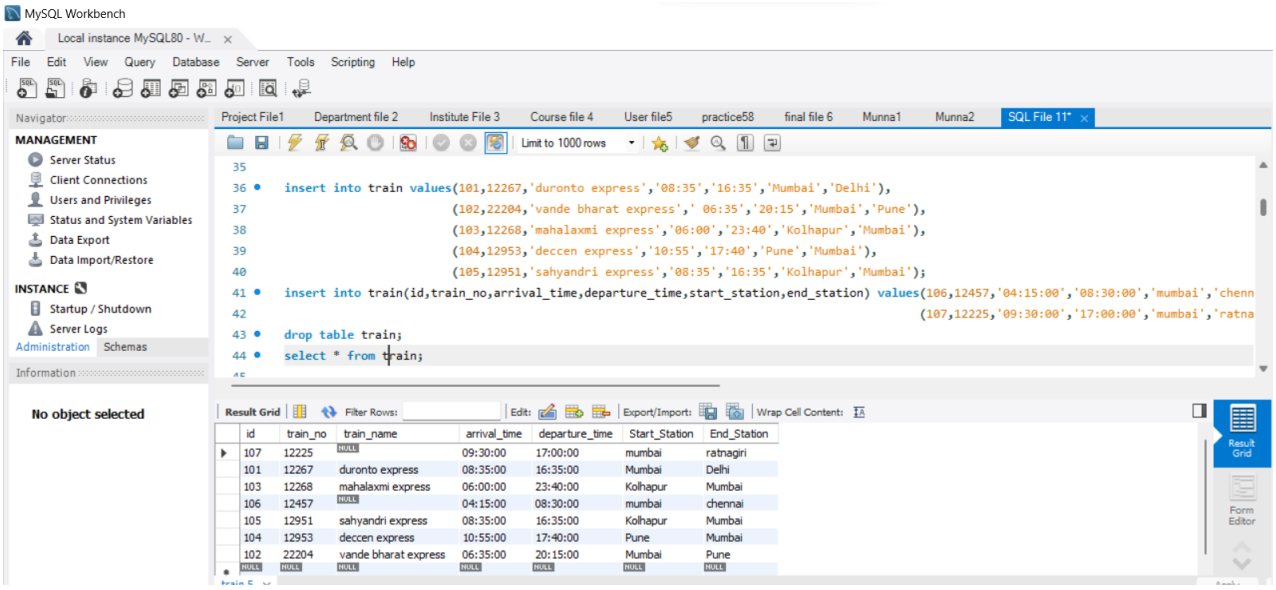


Ticket table –

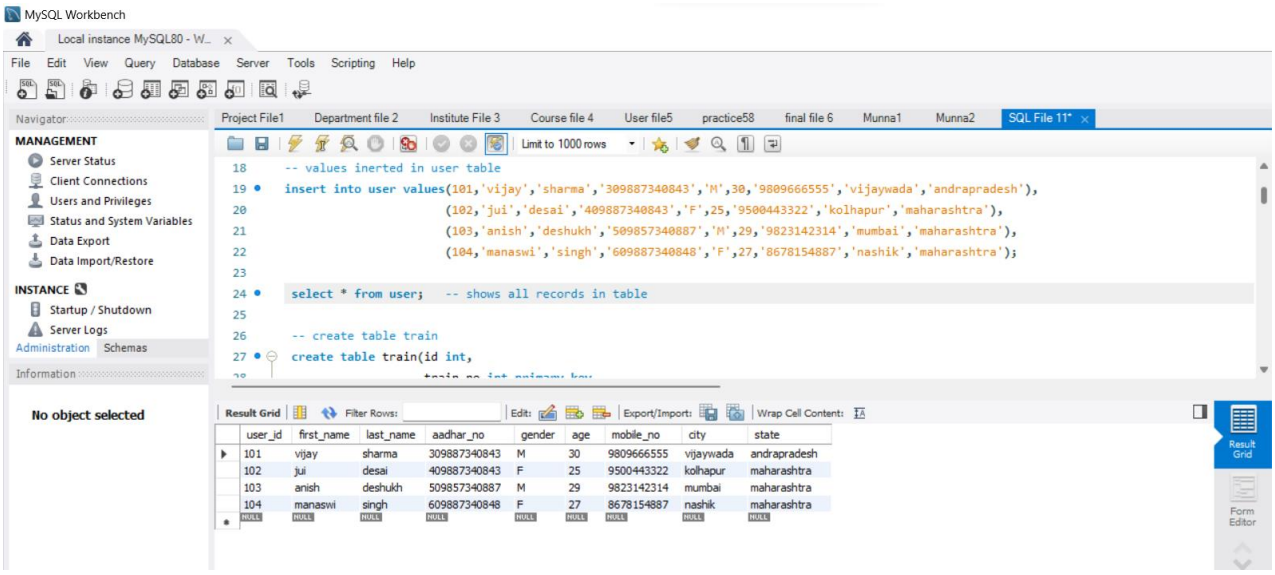


Contents of Tables –

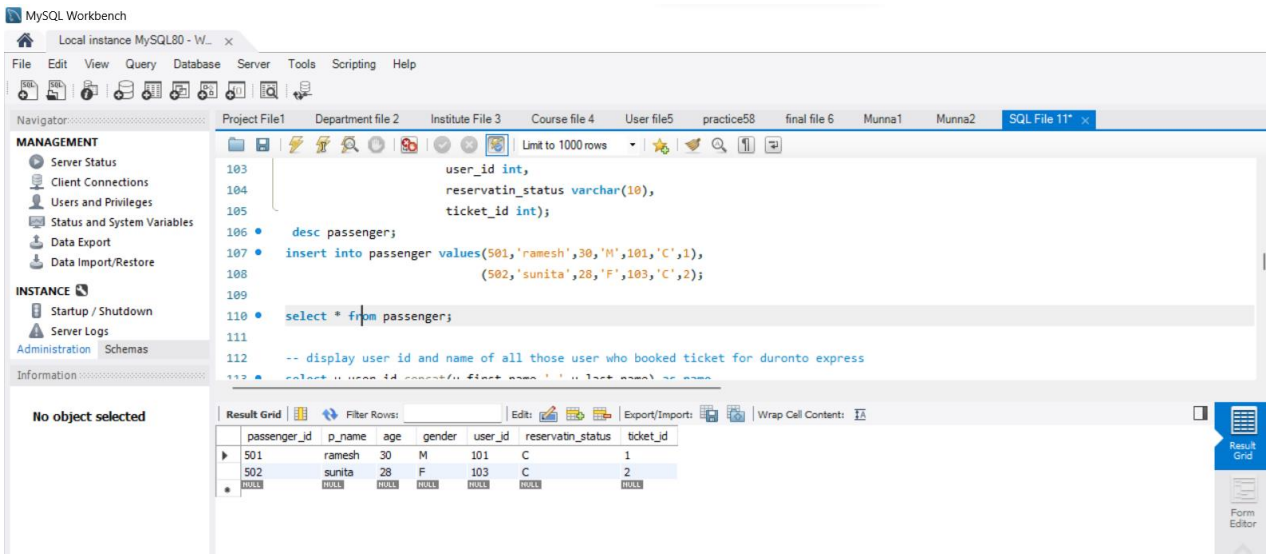
train table -



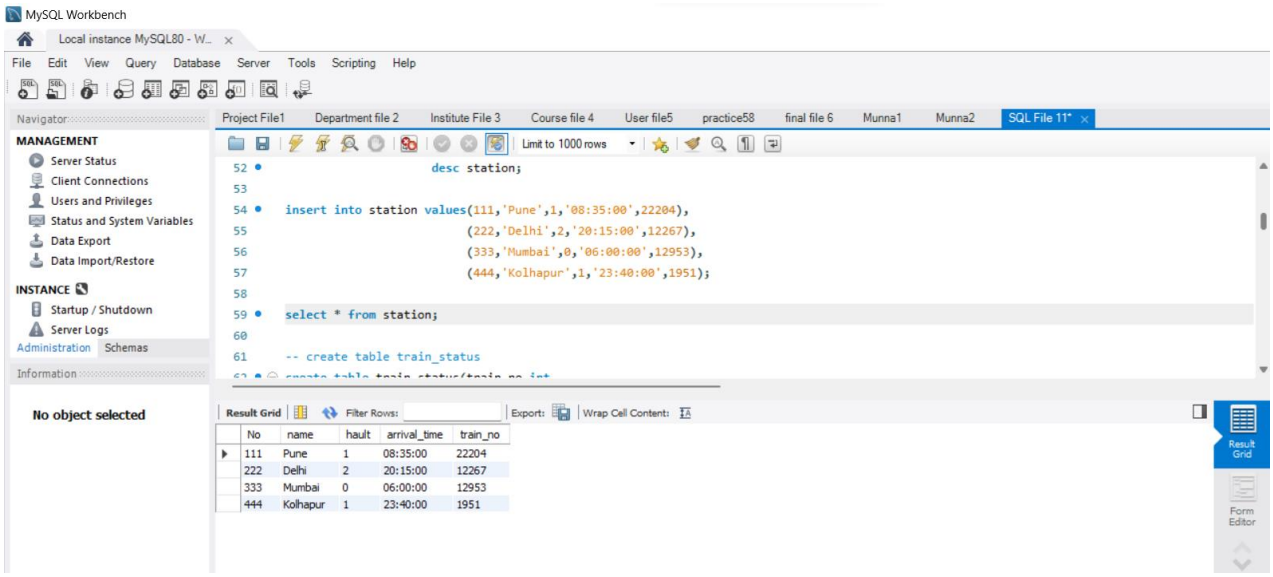
User table–



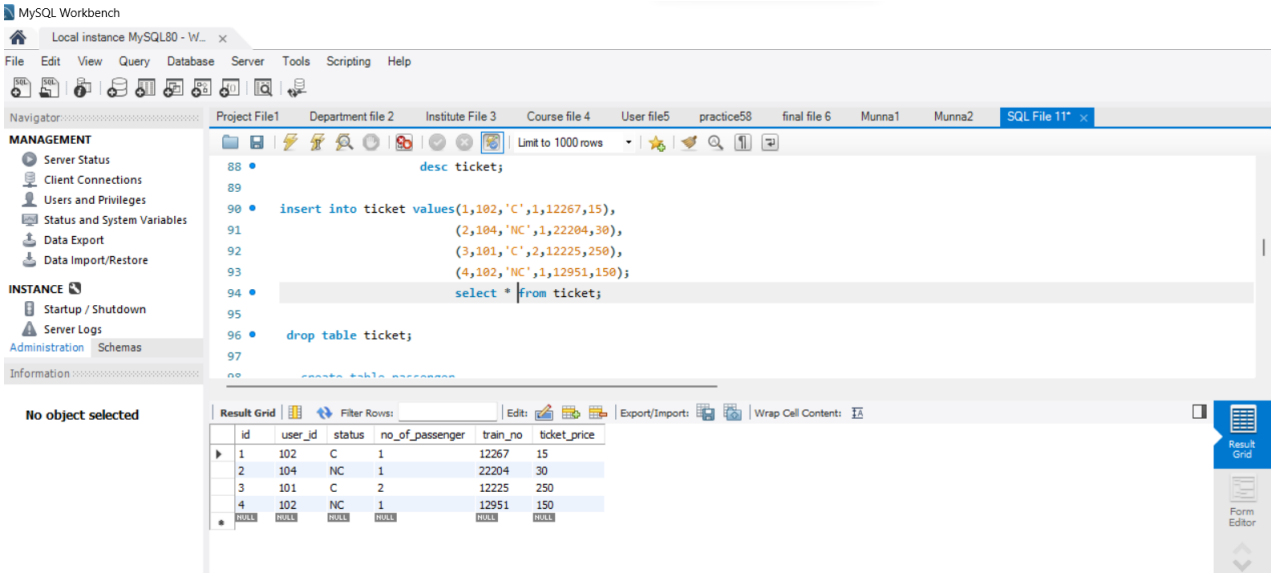
Passengers table –



station table –

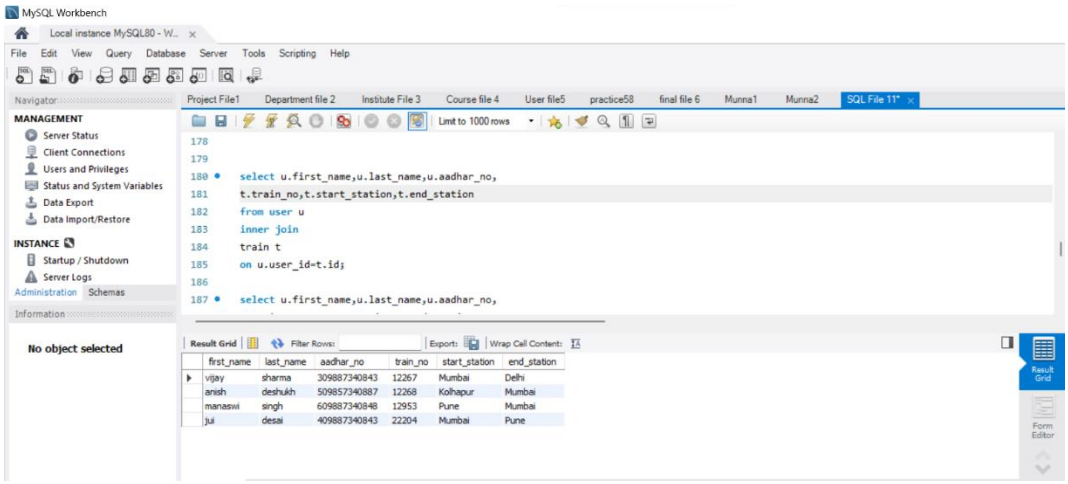


Ticket table –



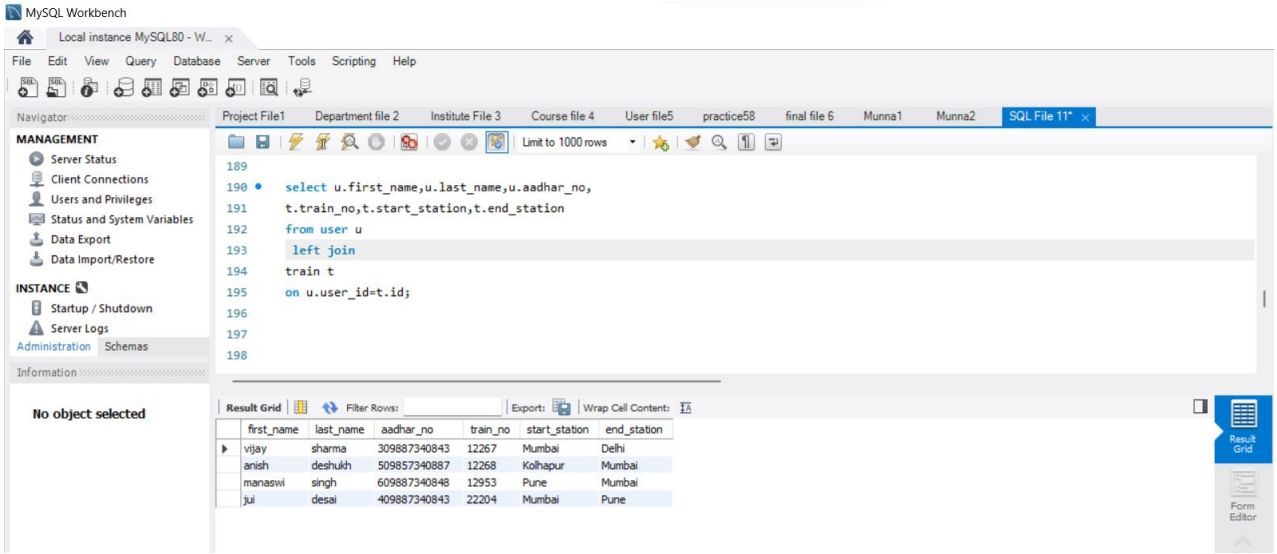
Inner Join –

Fetch the detail of railway reservation system (First name, last name , Adhar_No, train station, start_station, End_station) with respect to train to obtain them.



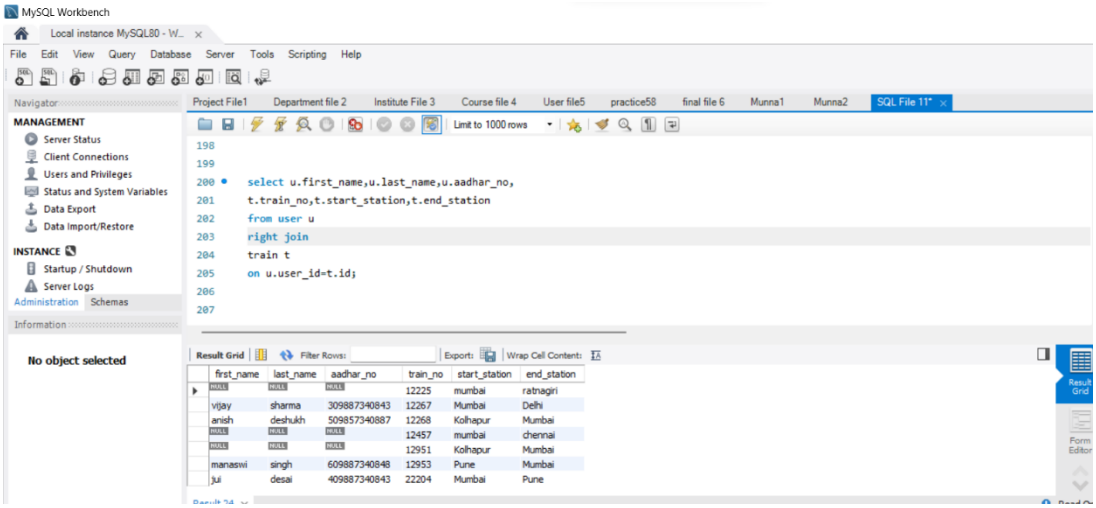
Left Join –

Fetch the detail of all user (Name, Place, train_Station, end_Station) and First_name, adhar_no used toget them.



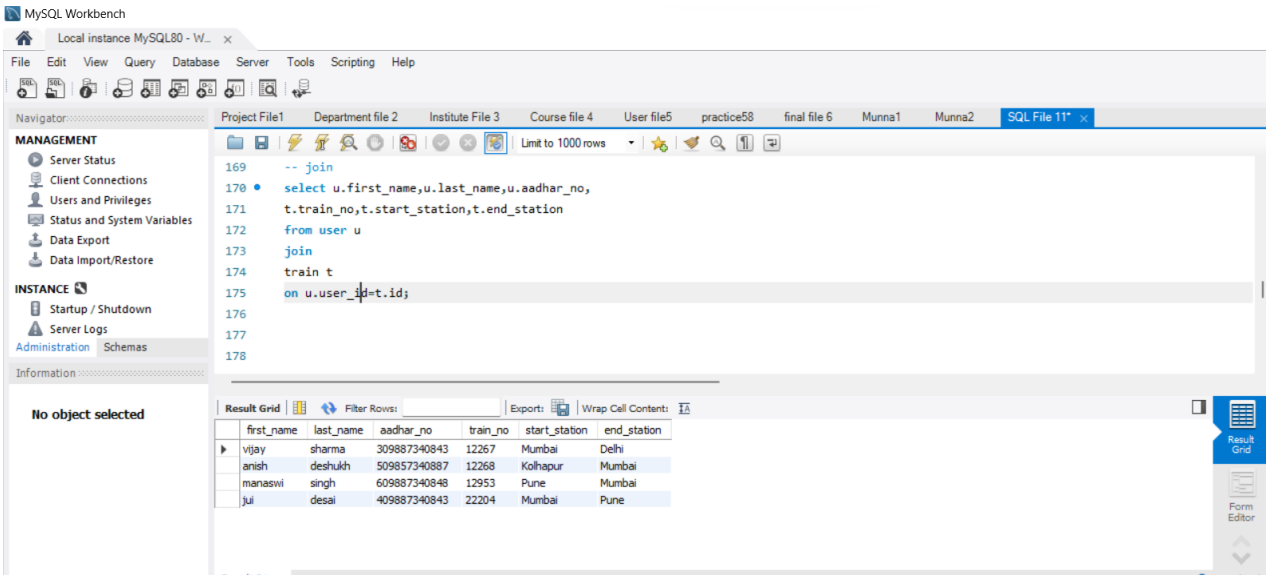
Right Join –

Write a query to display the First_name, last_name, adhar_no, train_no, start_station, end_station table.

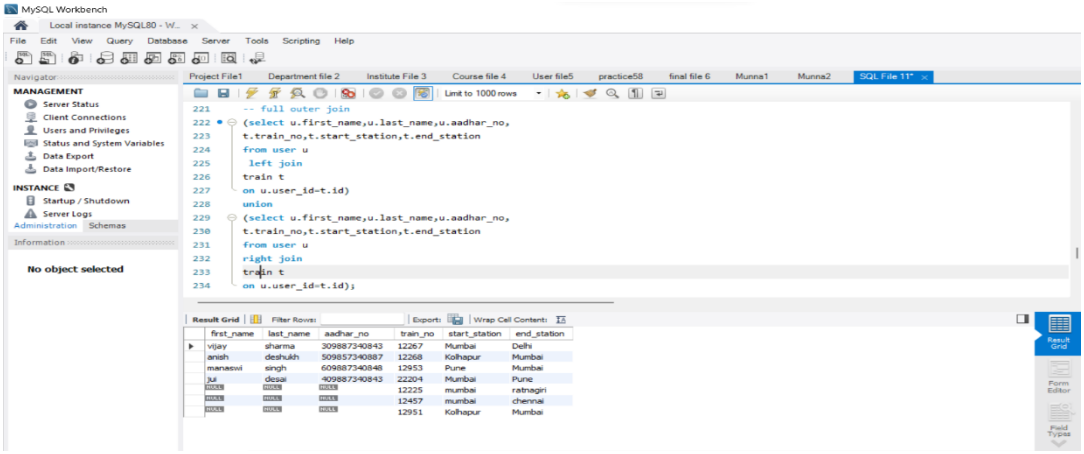


Join –

write a query to display the common contain of the two table .

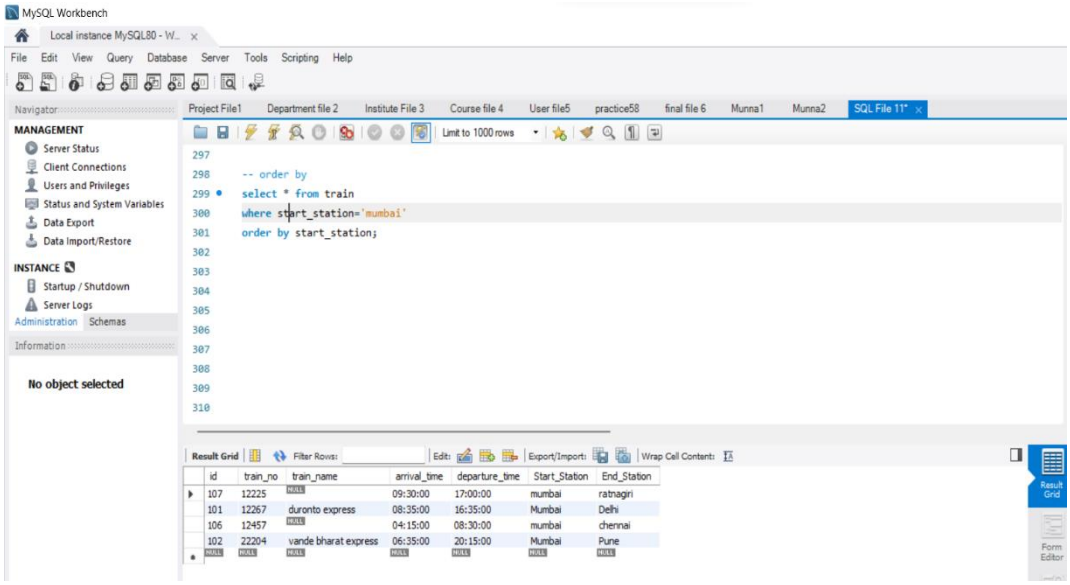


Full Outer Join



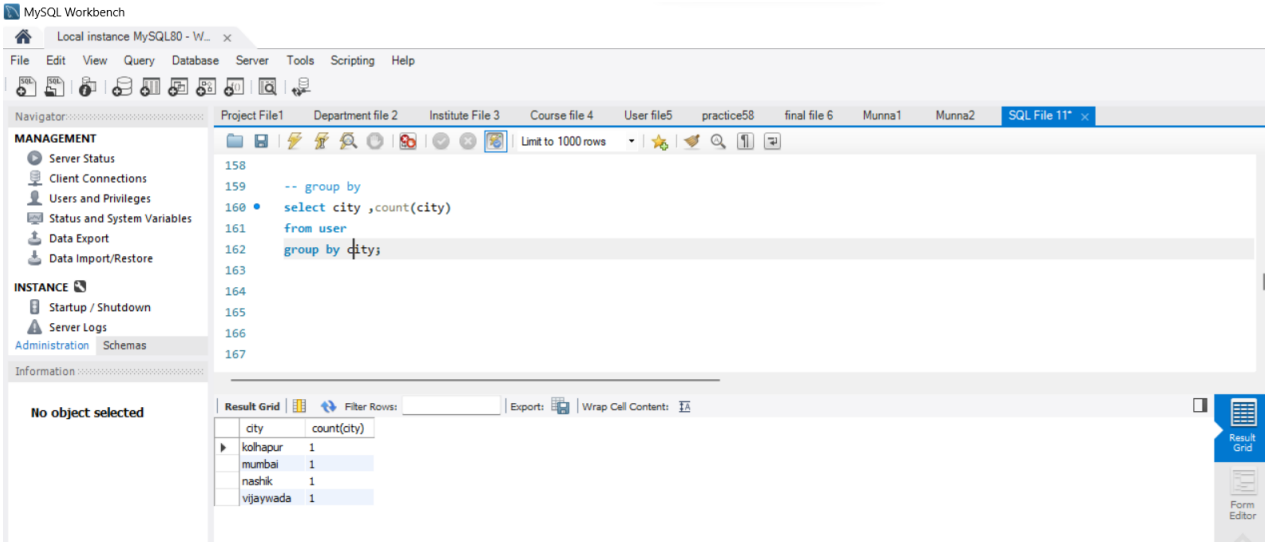
Order By –

display all the records as per the train_station whose train_station is "Mumbai"



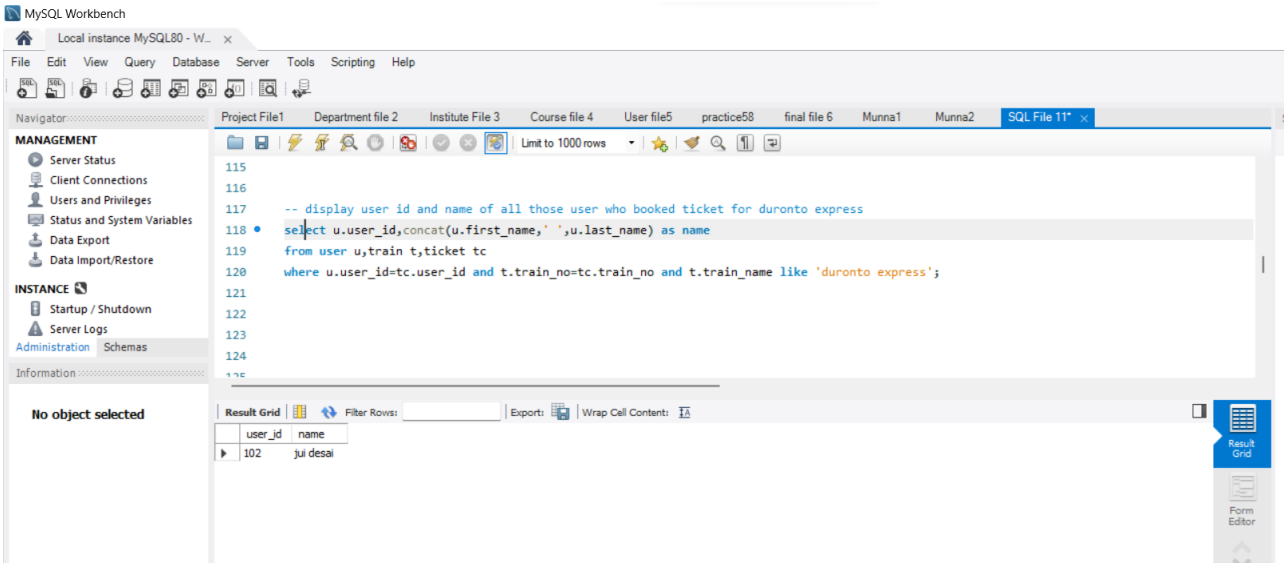
Group By-

display the city and city count according to City



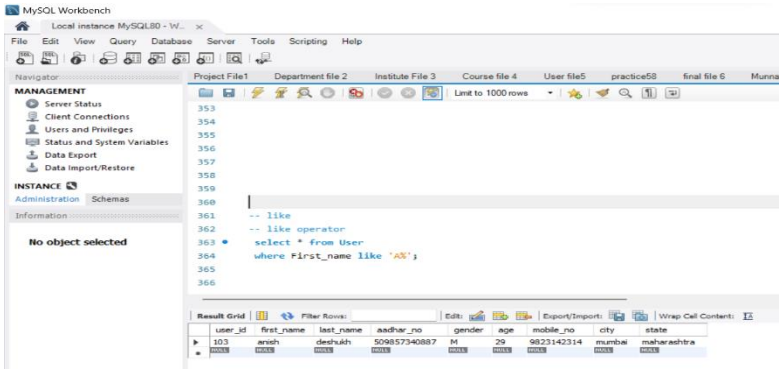
DQL - QUERIES

Display user id and name of all those user who booked ticket for Durando express

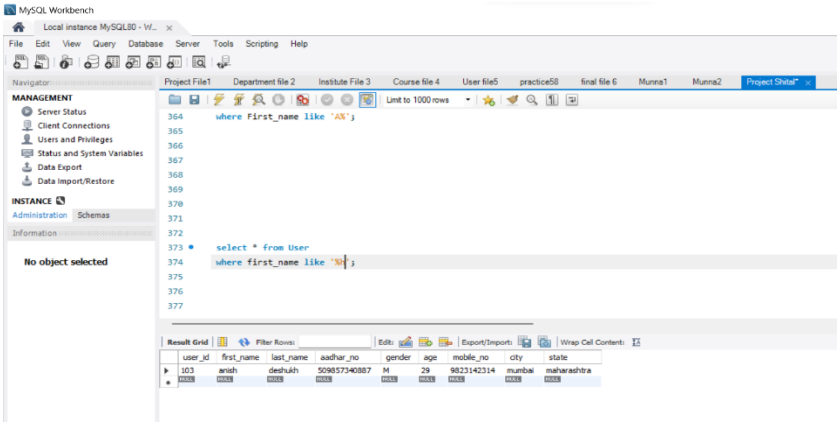


Like-

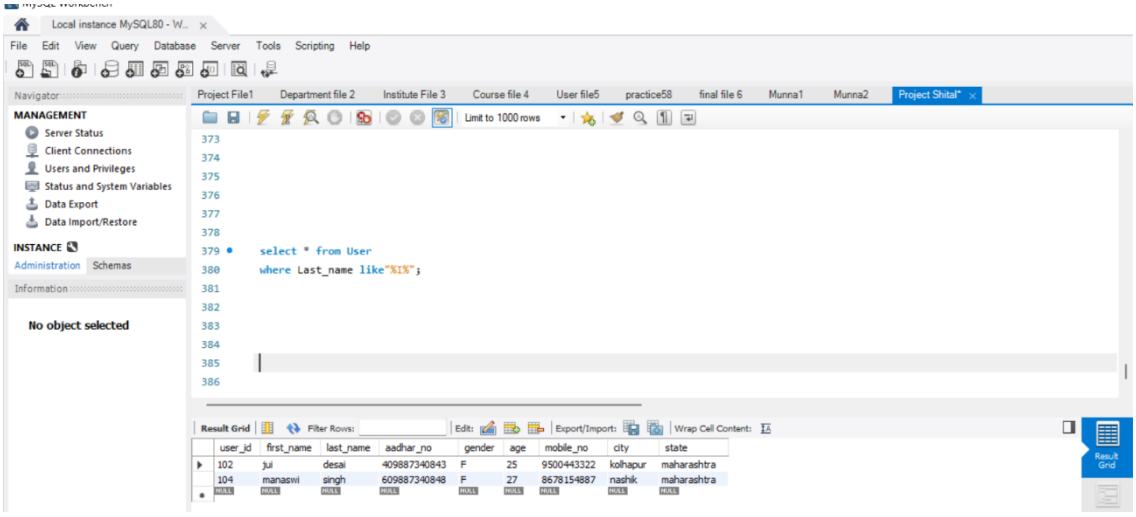
Write a query to display the record of the User whose name start with “R”



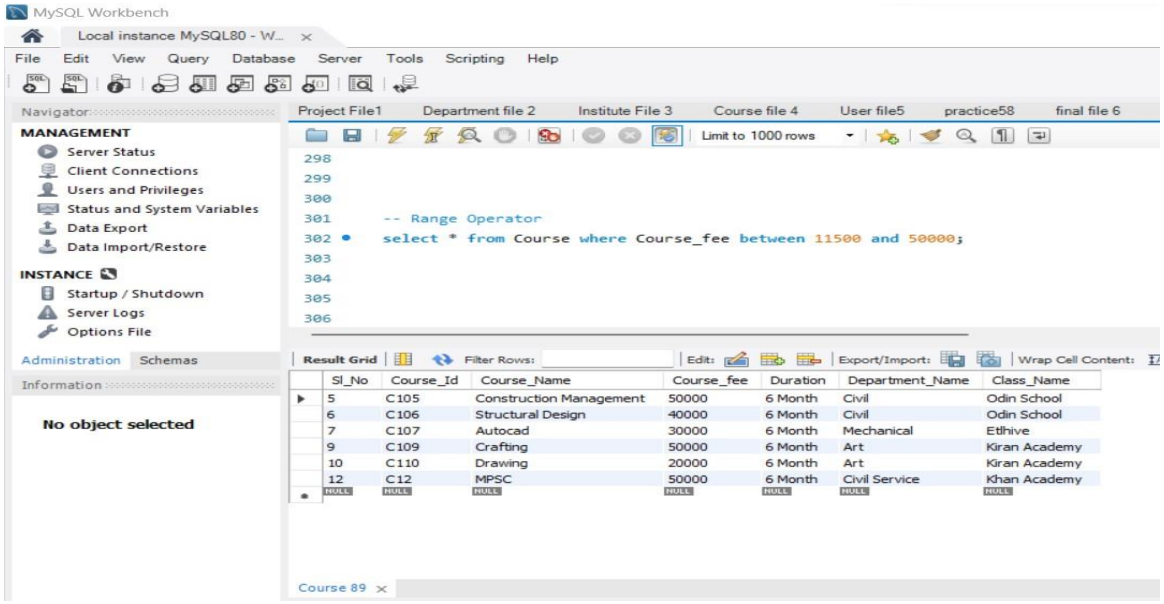
Write a query to display the record of the User whose name end with “R”



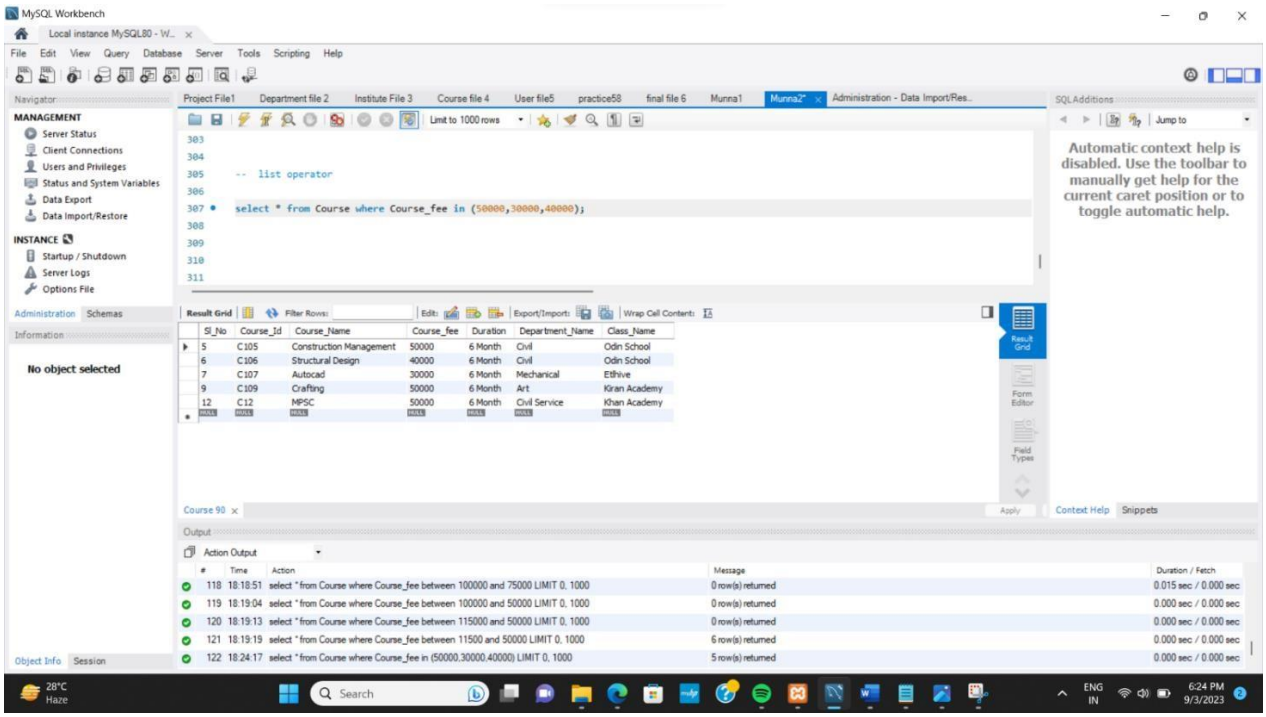
Write a query to display the record of the User whose name contain P letter in the name “%P%”



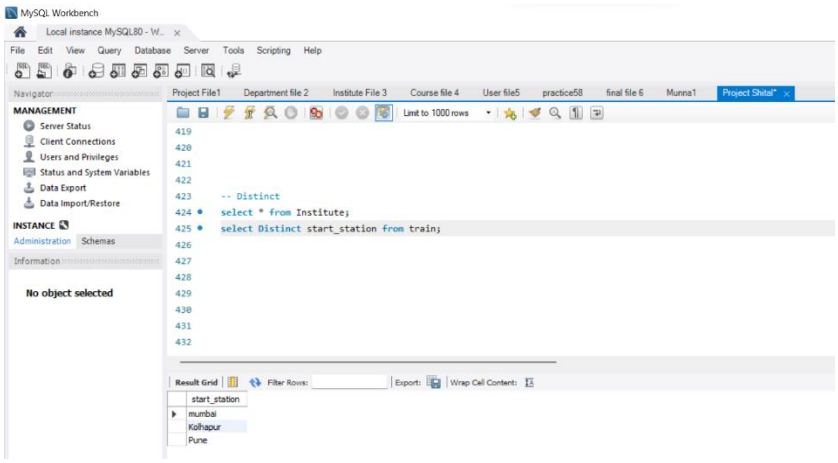
Write query to display the course whose Course_Fee between 11500 and 50000



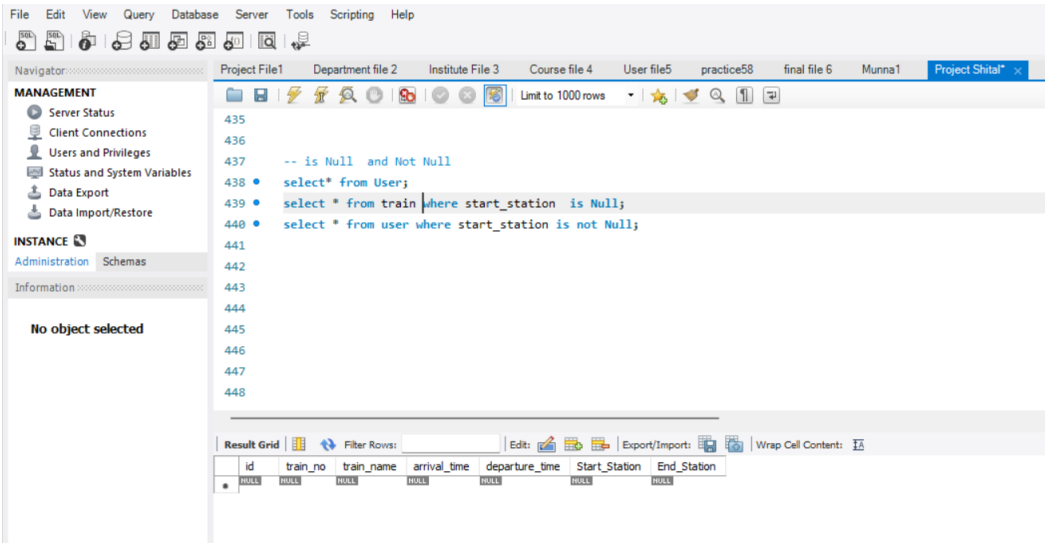
Write a query to display the Course whose Course fees (50000,30000,40000)



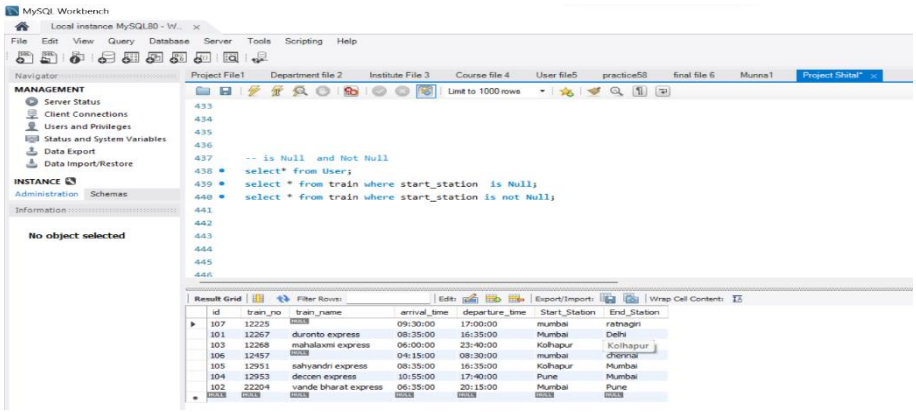
Write a query to display the all unique start_station From ticket



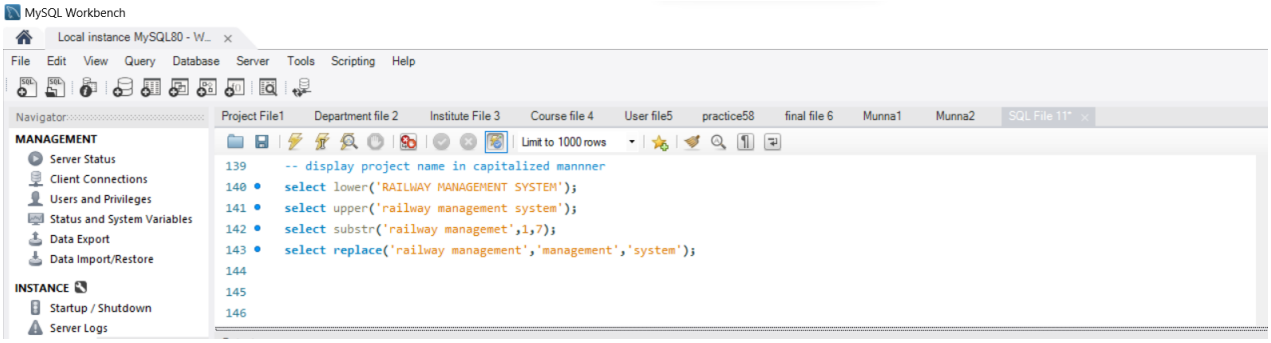
Write a query to display the start_station which is not assign to any User



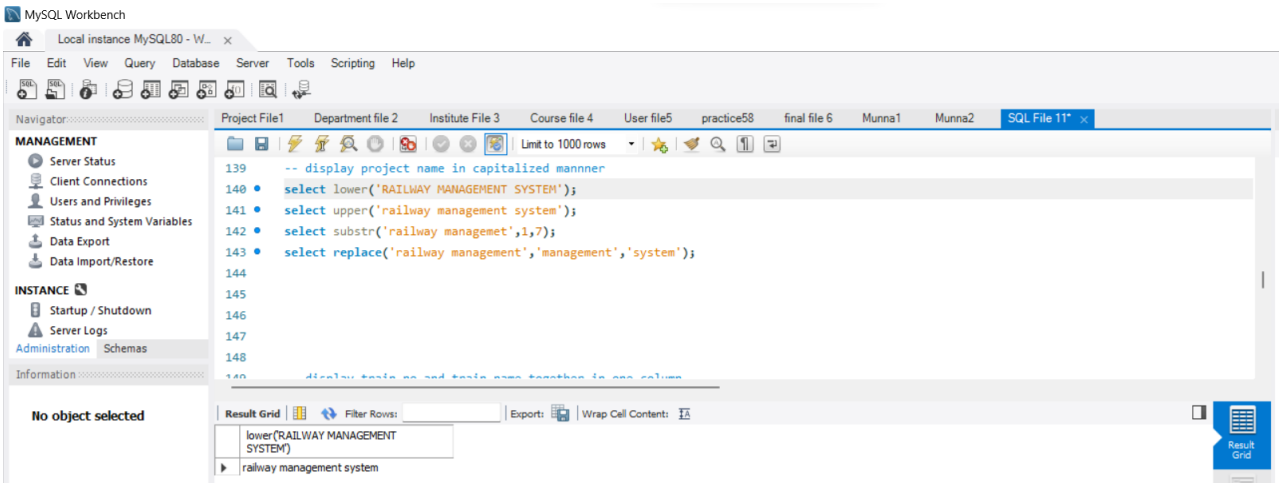
Write a query to display the train name who have enter the start_station



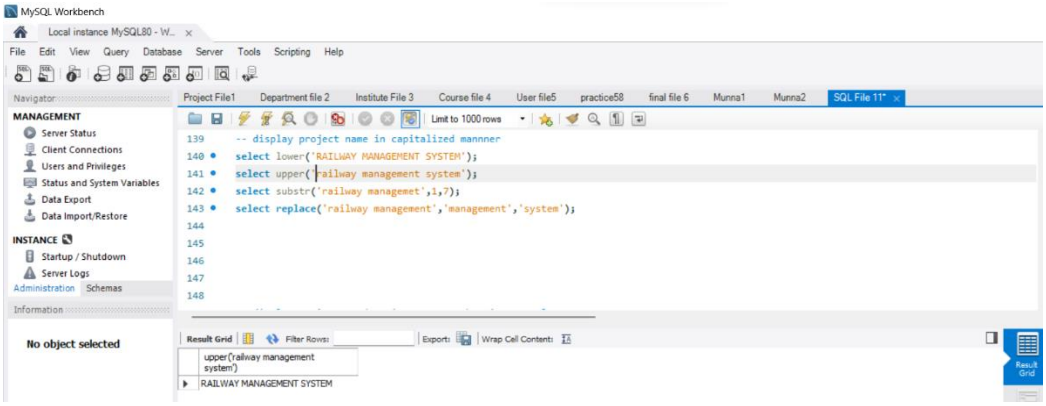
Built in SQL – String Functions



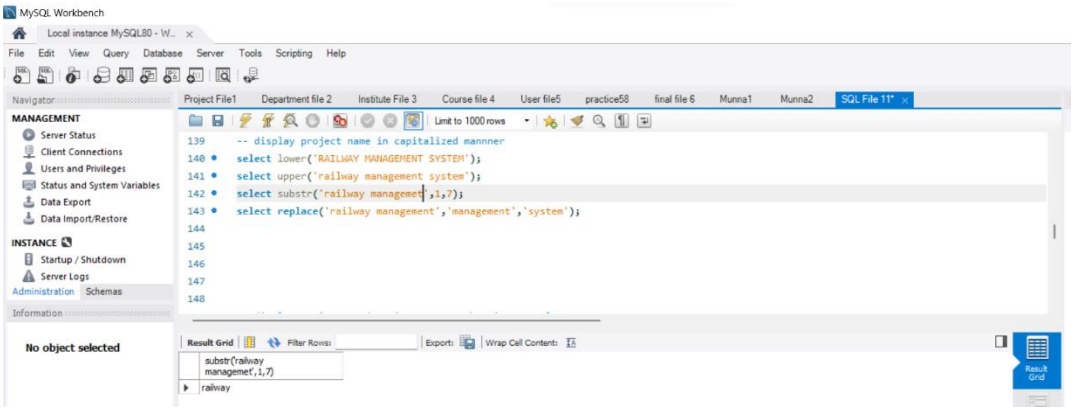
Write a query to Display the “railway management system” in Lower case



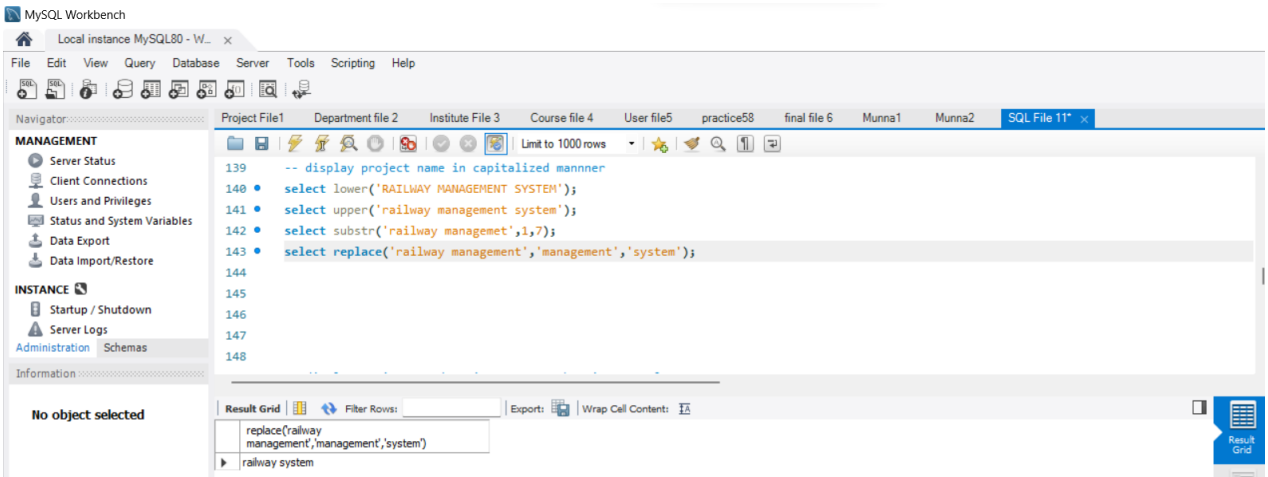
Write a query to Display the “railway management system” in capitalize manner



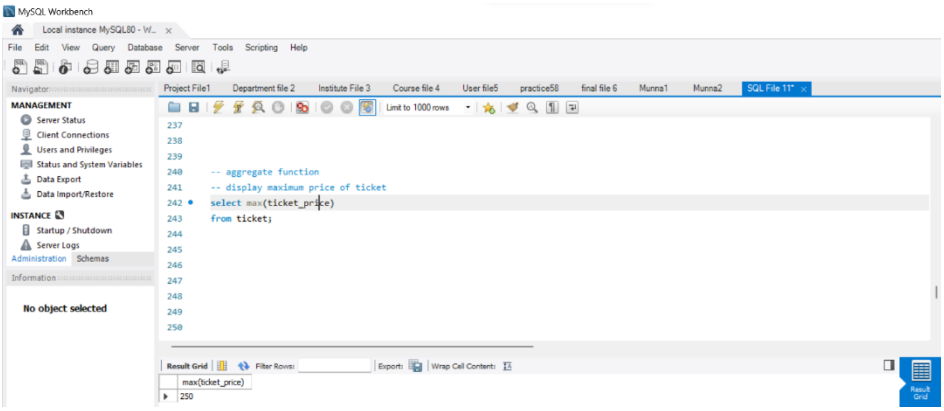
Write a query to Display the “railway management system” only with “railway”



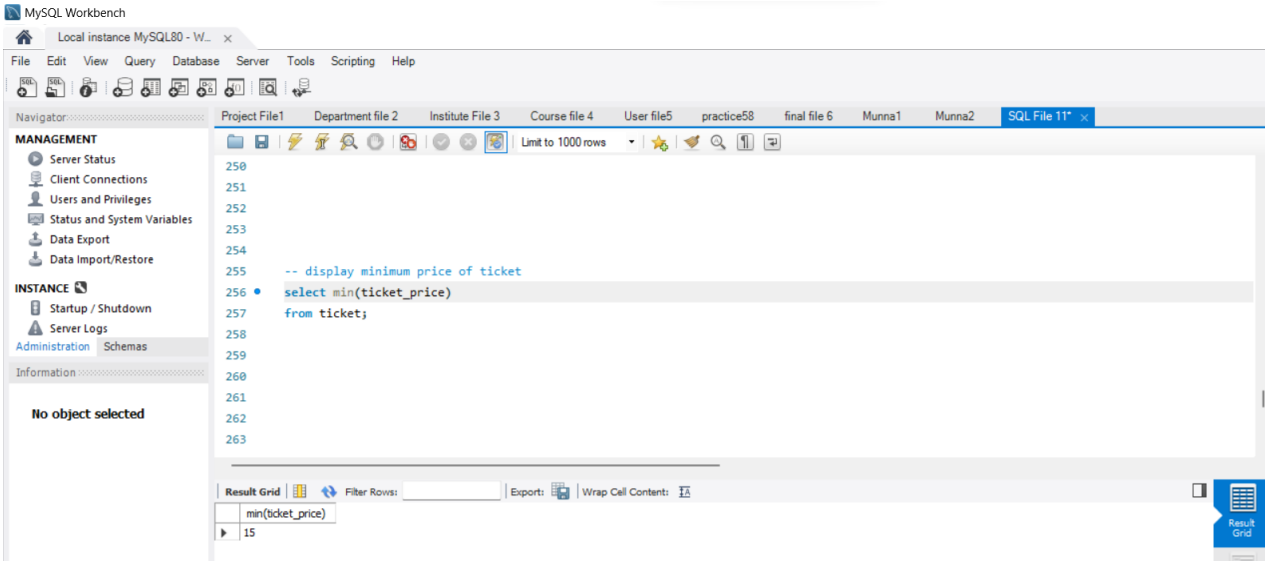
Write a query to replace the “management” word to “system”.



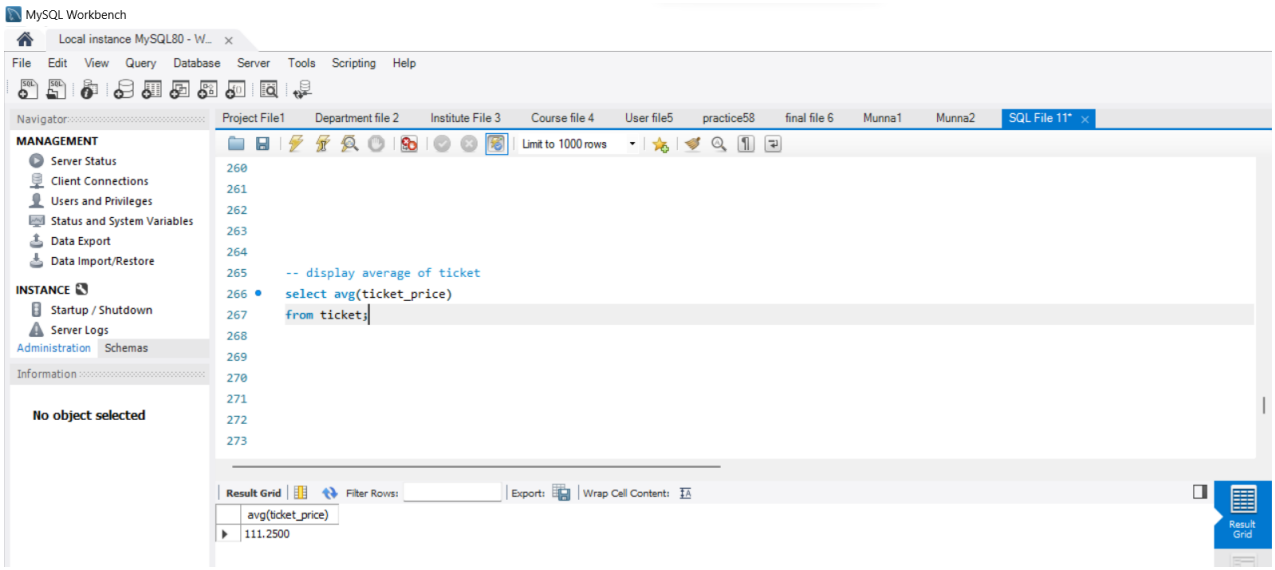
Aggregate Function -



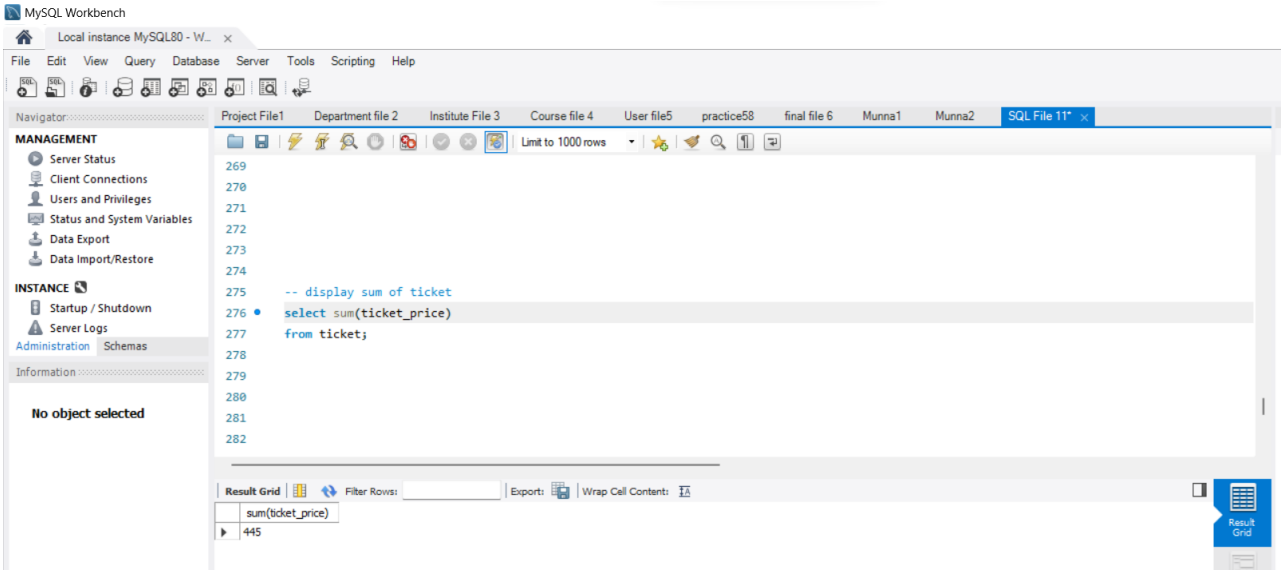
Write a query to display the minimum train_price



Write a query to display the Avg train_price

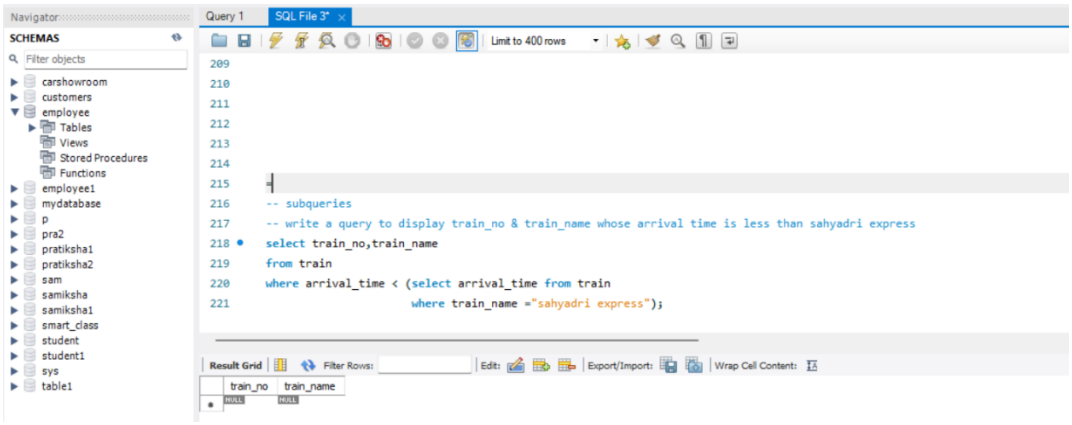


Write a query to display the sum of the train_price

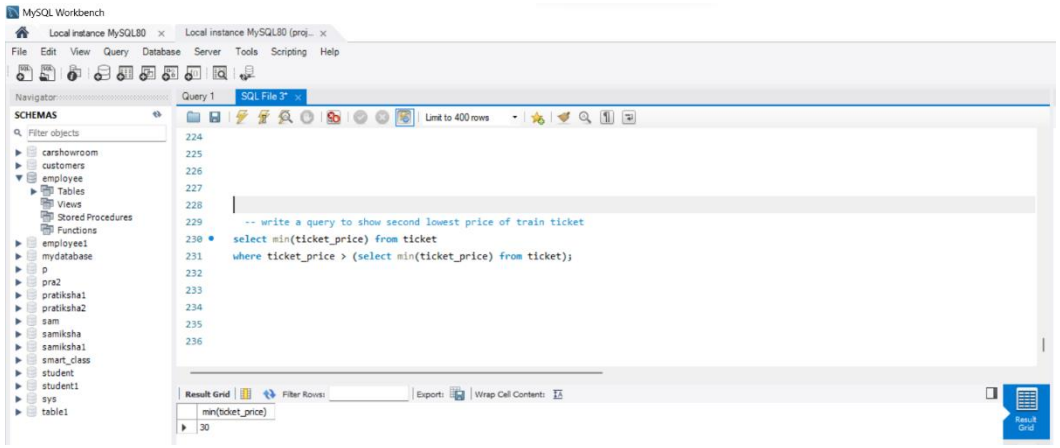


Subqueries –

Write a query to display train no and train name whose arrival time is less than Sahyadri express



Write a query to show second lowest price of train ticket



Write a query to display ticket price whose price is less than average price