1.

Create table if not exists passenger (

passenger\_nam varchar(50) NULL DEFAULT NULL,

Cateogory varchar(50) NULL DEFAULT NULL ,

Gender varchar(50) NULL DEFAULT NULL ,

Boarding\_City varchar(50) NULL DEFAULT NULL ,

Destination\_City varchar(50) NULL DEFAULT NULL ,

Distance int NOT NULL,

Bus\_Type varchar(50) NULL DEFAULT NULL

);

-----------------------------------------------------------------------------------

Create table if not exists price (

Bus\_Type varchar(50) NULL DEFAULT NULL ,

Distance int NOT NULL,

Price int NOT NULL

);

2.

INSERT INTO Passenger (Passenger\_nam,Category,Gender,Boarding\_City,Destination\_City,Distance,Bus\_Type)

VALUES

(

'Sejal',

'AC',

'F',

'Bengaluru',

'Chennai',

350,

'Sleeper'

),

(

'Anmol',

'Non-AC',

'M',

'Mumbai',

'Hyderabad',

700,

'Sitting'

),

(

'Pallavi',

'AC',

'F',

'Panaji',

'Bengaluru',

600,

'Sleeper'

), (

'Khusboo',

'AC',

'F',

'Chennai',

'Mumbai',

1500,

'Sleeper'

),

( 'Udit',

'Non-AC',

'M',

'Trivandrum',

'Panaji',

1000,

'Sleeper'

), (

'Ankur',

'AC',

'M',

'Nagpur',

'Hyderabad',

500,

'Sitting'

),

( 'Hemant',

'Non-AC',

'M',

'Panaji',

'Mumbai',

700,

'Sleeper'

), (

'Manish',

'Non-AC',

'M',

'Panaji',

'Mumbai',

500,

'Sitting'

), (

'Piyush',

'AC',

'M',

'Pune',

'Nagpur',

700,

'Sitting'

);

INSERT INTO Price (Bus\_Type,Distance,Price)

VALUES

(

'Sleeper',

350,

770

),

(

'Sleeper',

500,

1100

),

(

'Sleeper',

600,

1320

),

(

'Sleeper',

700,

1540

),

(

'Sleeper',

1000,

2200

),

(

'Sleeper',

1200,

2640

),

(

'Sleeper',

350,

434

),

(

'Sitting',

500,

620

),

(

'Sitting',

500,

620

),

(

'Sitting',

600,

744

),

(

'Sitting',

700,

868

),

(

'Sitting',

1000,

1240

),

(

'Sitting',

1200,

1488

),

(

'Sitting',

1500,

1860

);

3) How many females and how many male passengers travelled for a minimum distance of

600 KM s?

------------------------------------

select GENDER, count(GENDER)

from passenger

where distance>=600

group by GENDER;

4) Find the minimum ticket price for Sleeper Bus.

SELECT Bus\_Type AS Bus\_Type,MIN(price) AS price

FROM price

WHERE Bus\_Type='Sleeper'

HAVING MIN(price) > 0;

5) Select passenger names whose names start with character 'S'

SELECT passenger\_nam FROM passenger

WHERE passenger\_nam LIKE 'A%';

6) Calculate price charged for each passenger displaying Passenger name, Boarding City,

Destination City, Bus\_Type, Price in the output

SELECT passenger.passenger\_nam,passenger.Boarding\_City,passenger.Destination\_City, price.Price

FROM price

INNER JOIN passenger ON passenger.Distance=price.Distance;

7) What is the passenger name and his/her ticket price who travelled in Sitting bus for a

distance of 1000 KM s

SELECT passenger.passenger\_nam,price.Price

FROM price

INNER JOIN passenger ON passenger.Distance=price.Distance

and price.Bus\_Type = 'Sitting' and price.Distance =1000;

8) What will be the Sitting and Sleeper bus charge for Pallavi to travel from Bangalore to

Panaji?

SELECT passenger.passenger\_nam,price.Price, price.Bus\_Type

FROM price

INNER JOIN passenger

Where price.Distance =600

and passenger.passenger\_nam = 'Pallavi'

order by price.price;

9) List the distances from the "Passenger" table which are unique (non-repeated

distances) in descending order.

SELECT DISTINCT(Distance) FROM passenger

order by distance;

10) Display the passenger name and percentage of distance travelled by that passenger

from the total distance travelled by all passengers without using user variables

SELECT passenger.passenger\_nam,(passenger.Distance/SUM(passenger.Distance)) as percentage\_of\_distance

FROM passenger

INNER JOIN price ON passenger.Distance=price.Distance

11) Display the distance, price in three categories in table Price

a) Expensive if the cost is more than 1000

b) Average Cost if the cost is less than 1000 and greater than 500

c) Cheap otherwise

SELECT DISTINCT(passenger.Distance),price.Price

FROM price

INNER JOIN passenger ON passenger.Distance=price.Distance