**Solution →**

create table PASSENGER

(Passenger\_name varchar(20),

Category varchar(20),

Gender varchar(20),

Boarding\_City varchar(20),

Destination\_City varchar(20),

Distance int,

Bus\_Type varchar(20)

);

create table PRICE

(

Bus\_Type varchar(20),

Distance int,

Price int

);

insert into passenger values('Sejal','AC','F','Bengaluru','Chennai',350,'Sleeper');

insert into passenger values('Anmol','Non-AC','M','Mumbai','Hyderabad',700,'Sitting');

insert into passenger values('Pallavi','AC','F','panaji','Bengaluru',600,'Sleeper');

insert into passenger values('Khusboo','AC','F','Chennai','Mumbai',1500,'Sleeper');

insert into passenger values('Udit','Non-AC','M','Trivandrum','panaji',1000,'Sleeper');

insert into passenger values('Ankur','AC','M','Nagpur','Hyderabad',500,'Sitting');

insert into passenger values('Hemant','Non-AC','M','panaji','Mumbai',700,'Sleeper');

insert into passenger values('Manish','Non-AC','M','Hyderabad','Bengaluru',500,'Sitting');

insert into passenger values('Piyush','AC','M','Pune','Nagpur',700,'Sitting');

select \* from passenger;

insert into price values('Sleeper',350,770);

insert into price values('Sleeper',500,1100);

insert into price values('Sleeper',600,1320);

insert into price values('Sleeper',700,1540);

insert into price values('Sleeper',1000,2200);

insert into price values('Sleeper',1200,2640);

insert into price values('Sleeper',1500,2700);

insert into price values('Sitting',500,620);

insert into price values('Sitting',600,744);

insert into price values('Sitting',700,868);

insert into price values('Sitting',1000,1240);

insert into price values('Sitting',1200,1488);

insert into price values('Sitting',1500,1860);

select \* from price;

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3)

select Gender, count(Gender) FROM Passenger where Distance>=600 group by Gender ;

Gender count(Gender)

M 4

F 2

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4)

select min(Price) from Price where Bus\_Type = 'Sleeper';

min(Price)

'770'

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5)

select Passenger\_Name FROM Passenger where Passenger\_Name like 'S%' order by Passenger\_Name;

Passenger\_Name

Sejal

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6)

select a.Passenger\_name,a.Boarding\_City,a.Destination\_City,a.Bus\_type,b.Price from Passenger a , Price b where (a.Bus\_Type = b.Bus\_Type and a.Distance = b.Distance);

# Passenger\_name Boarding\_City Destination\_City Bus\_type Price

Sejal Bengaluru Chennai Sleeper 770

Pallavi panaji Bengaluru Sleeper 1320

Hemant panaji Mumbai Sleeper 1540

Udit Trivandrum panaji Sleeper 2200

Khusboo Chennai Mumbai Sleeper 2700

Ankur Nagpur Hyderabad Sitting 620

Manish Hyderabad Bengaluru Sitting 620

Anmol Mumbai Hyderabad Sitting 868

Piyush Pune Nagpur Sitting 868

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7) select a.Passenger\_name,b.Price from Passenger a ,Price b where (a.Bus\_Type = "Sitting" and b.Bus\_Type = "Sitting" and a.Distance = 700 and b.Distance=700);

Passenger\_name Price

Anmol 868

Piyush 868

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8)

SELECT Price FROM Price where distance=(SELECT Distance FROM Passenger where passenger\_name = "Pallavi");

Price

1320

744

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9)

SELECT distinct(Distance) FROM Passenger order by distance desc;

Distance

1500

1000

700

600

500

350

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10)

with total as ( select sum(distance) as total from Passenger)

select passenger\_Name,(distance / total.total)\*100 as percentage\_travel from Passenger,total ;

passenger\_Name percentage\_travel

Sejal 5.3435

Anmol 10.6870

Pallavi 9.1603

Khusboo 22.9008

Udit 15.2672

Ankur 7.6336

Hemant 10.6870

Manish 7.6336

Piyush 10.6870

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11

SELECT Distance, Price,

CASE

WHEN

Price > 1000 THEN "Expensive"

WHEN Price <1000 and Price > 500 THEN "Average Cost"

ELSE "cheap" END as Cost FROM price;

Distance Price Cost

|  |  |  |
| --- | --- | --- |
| 350 | 770 | Average Cost |
| 500 | 1100 | Expensive |
| 600 | 1320 | Expensive |
| 700 | 1540 | Expensive |
| 1000 | 2200 | Expensive |
| 1200  1500 | 2640  2700 | Expensive  Expensive |
|  |  |  |
|  |  |  |
| 500 | 620 | Average Cost |
| 600 | 744 | Average Cost |
| 700 | 868 | Average Cost |
| 1000 | 1240 | Expensive |
| 1200 | 1488 | Expensive |
| 1500 | 1860 | Expensive |