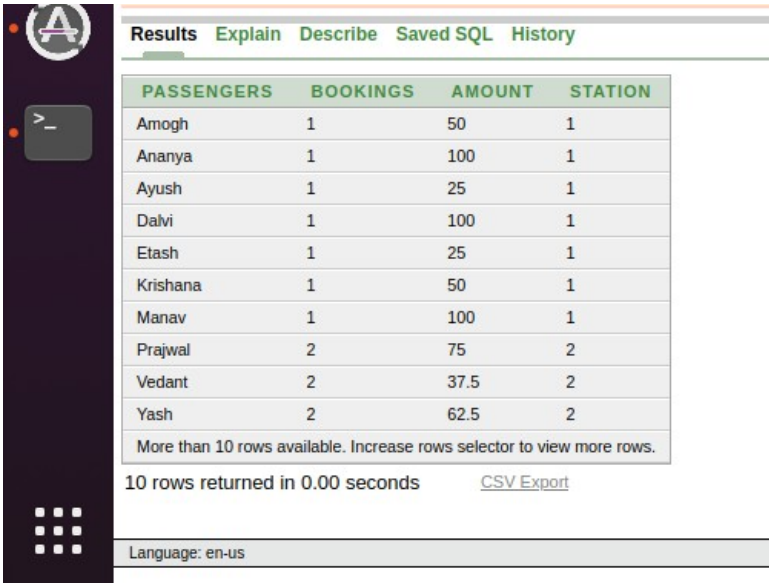
Experiment – 3

Materialised View:-

```
create materialized view Passenger_Summary
BUILD IMMEDIATE
REFRESH FORCE
ON DEMAND
DISABLE QUERY REWRITE
AS
Select P_Name as Passengers, count(B_ID) as Bookings, avg(Tick_Cost) as Amount,
count(S_ID) as Station from Bookings__Fact_1
Inner join Passengers on Bookings__Fact_1.P_ID = Passengers.P_ID
INNER JOIN Tickets on Bookings__Fact_1.Tick_ID = Tickets.Tick_ID
inner join Stations on Bookings__Fact_1.S_ID = Stations.S_ID
Group by P_Name
Order by P_Name;
```



Results | Explain | Describe | Saved SQL | History

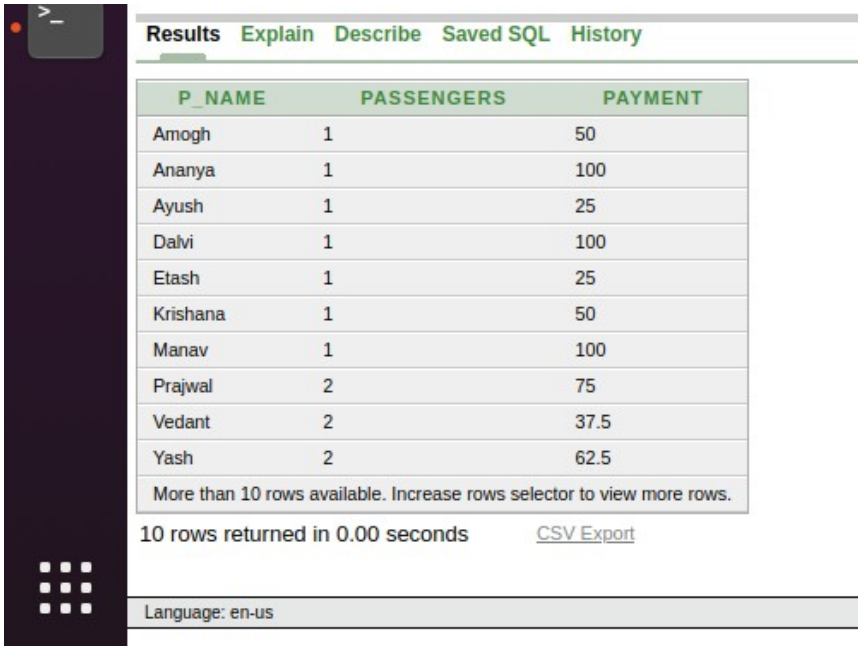
PASSENGERS	BOOKINGS	AMOUNT	STATION
Amogh	1	50	1
Ananya	1	100	1
Ayush	1	25	1
Dalvi	1	100	1
Etash	1	25	1
Krishana	1	50	1
Manav	1	100	1
Prajwal	2	75	2
Vedant	2	37.5	2
Yash	2	62.5	2

More than 10 rows available. Increase rows selector to view more rows.

10 rows returned in 0.00 seconds CSV Export

Language: en-us

```
create materialized view Passenger_Bookings
BUILD IMMEDIATE
REFRESH FORCE
ON DEMAND
DISABLE QUERY REWRITE
AS
Select P_Name, count(Passengers.P_ID) as Passengers, avg(Tick_Cost) as Payment
from Bookings__Fact_1
Inner join Passengers on Bookings__Fact_1.P_ID = Passengers.P_ID
INNER JOIN Tickets on Bookings__Fact_1.Tick_ID = Tickets.Tick_ID
inner join Stations on Bookings__Fact_1.S_ID = Stations.S_ID
Group by P_Name
order by P_Name;
```



Results | Explain | Describe | Saved SQL | History

P_NAME	PASSENGERS	PAYMENT
Amogh	1	50
Ananya	1	100
Ayush	1	25
Dalvi	1	100
Etash	1	25
Krishana	1	50
Manav	1	100
Prajwal	2	75
Vedant	2	37.5
Yash	2	62.5

More than 10 rows available. Increase rows selector to view more rows.

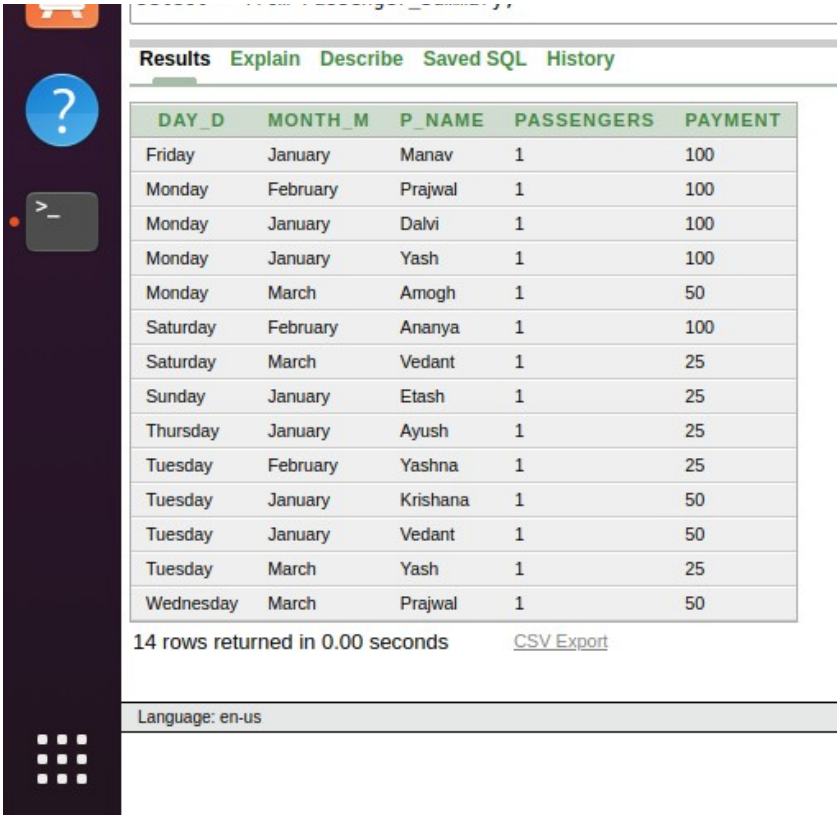
10 rows returned in 0.00 seconds CSV Export

Language: en-us

OLAP Queries:-

Drill Down:-

Select Day_D, Month_M, P_Name, count(Passengers.P_ID) as Passengers,
avg(Tick_Cost) as Payment from Bookings__Fact_1
Inner join Passengers on Bookings__Fact_1.P_ID = Passengers.P_ID
inner join Time on Bookings__Fact_1.Time_ID = Time.Time_ID
INNER JOIN Tickets on Bookings__Fact_1.Tick_ID = Tickets.Tick_ID
inner join Stations on Bookings__Fact_1.S_ID = Stations.S_ID
Group by Day_D, Month_M, P_Name
order by Day_D, Month_M, P_Name;



Results Explain Describe Saved SQL History

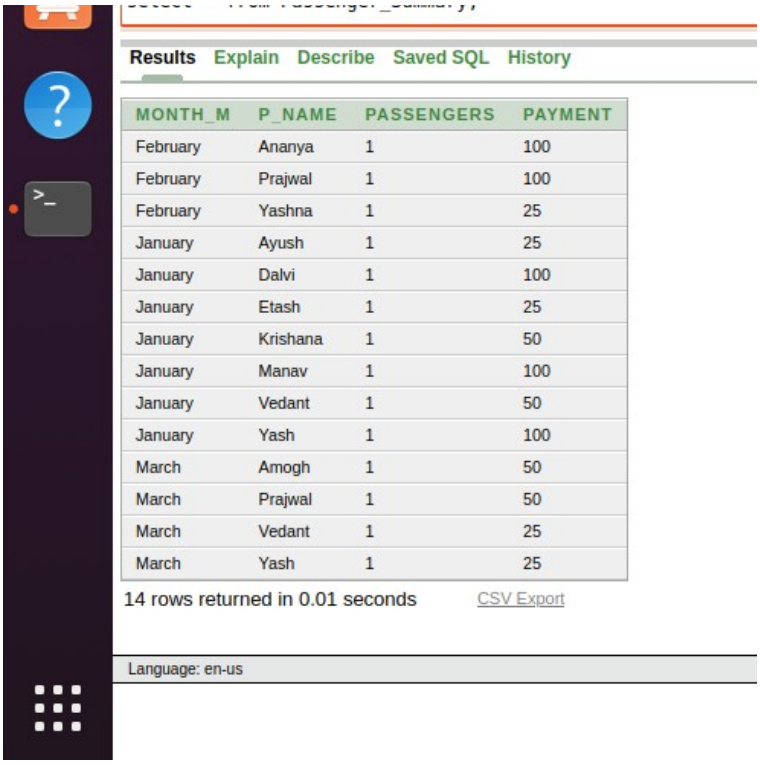
DAY_D	MONTH_M	P_NAME	PASSENGERS	PAYMENT
Friday	January	Manav	1	100
Monday	February	Prajwal	1	100
Monday	January	Dalvi	1	100
Monday	January	Yash	1	100
Monday	March	Amogh	1	50
Saturday	February	Ananya	1	100
Saturday	March	Vedant	1	25
Sunday	January	Etash	1	25
Thursday	January	Ayush	1	25
Tuesday	February	Yashna	1	25
Tuesday	January	Krishana	1	50
Tuesday	January	Vedant	1	50
Tuesday	March	Yash	1	25
Wednesday	March	Prajwal	1	50

14 rows returned in 0.00 seconds CSV Export

Language: en-us

ROLL UP:-

Select Month_M, P_Name, count(Passengers.P_ID) as Passengers, avg(Tick_Cost) as Payment from Bookings__Fact_1
Inner join Passengers on Bookings__Fact_1.P_ID = Passengers.P_ID
inner join Time on Bookings__Fact_1.Time_ID = Time.Time_ID
INNER JOIN Tickets on Bookings__Fact_1.Tick_ID = Tickets.Tick_ID
inner join Stations on Bookings__Fact_1.S_ID = Stations.S_ID
Group by Month_M, P_Name
order by Month_M, P_Name;



Results Explain Describe Saved SQL History

MONTH_M	P_NAME	PASSENGERS	PAYMENT
February	Ananya	1	100
February	Prajwal	1	100
February	Yashna	1	25
January	Ayush	1	25
January	Dalvi	1	100
January	Etash	1	25
January	Krishana	1	50
January	Manav	1	100
January	Vedant	1	50
January	Yash	1	100
March	Amogh	1	50
March	Prajwal	1	50
March	Vedant	1	25
March	Yash	1	25

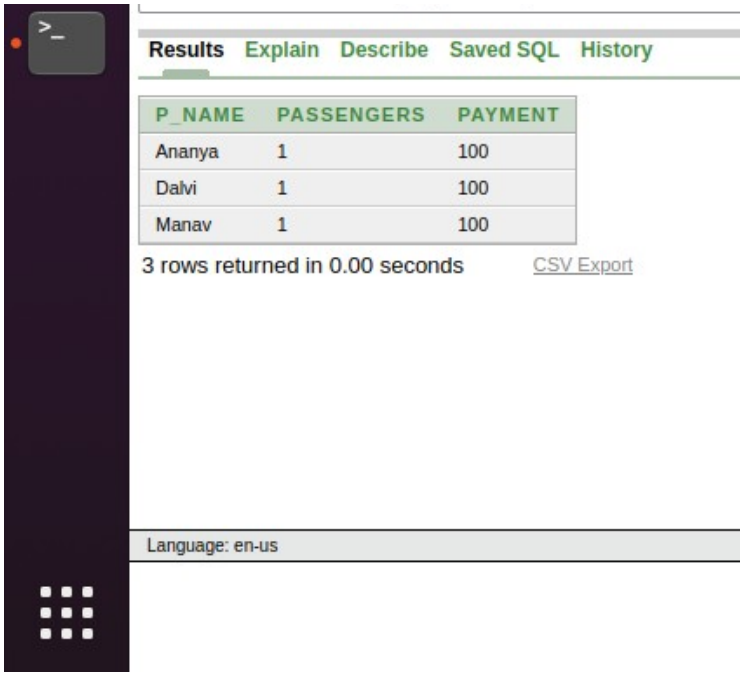
14 rows returned in 0.01 seconds CSV Export

Language: en-us

SLICE:-

Select Month_M, P_Name, count(Passengers.P_ID) as Passengers, avg(Tick_Cost) as Payment from Bookings__Fact_1
Inner join Passengers on Bookings__Fact_1.P_ID = Passengers.P_ID
inner join Time on Bookings__Fact_1.Time_ID = Time.Time_ID
INNER JOIN Tickets on Bookings__Fact_1.Tick_ID = Tickets.Tick_ID
inner join Stations on Bookings__Fact_1.S_ID = Stations.S_ID
Group by Month_M, P_Name
order by Month_M, P_Name;

select * from Passenger_Bookings where Payment = 100;



DICE:-

Select Month_M, P_Name, count(Passengers.P_ID) as Passengers, avg(Tick_Cost) as Payment from Bookings__Fact_1
Inner join Passengers on Bookings__Fact_1.P_ID = Passengers.P_ID
inner join Time on Bookings__Fact_1.Time_ID = Time.Time_ID
INNER JOIN Tickets on Bookings__Fact_1.Tick_ID = Tickets.Tick_ID
inner join Stations on Bookings__Fact_1.S_ID = Stations.S_ID
Group by Month_M, P_Name
order by Month_M, P_Name;

Select * from Passenger_Bookings_2 where Payment >= 100 and passengers = 1;