BR 1:

SET SQL\_MODE = ' ';

WITH contribution\_percentage AS (

SELECT city\_id,

COUNT(city\_id),

ROUND(COUNT(city\_id) / (SELECT count(city\_id) from fact\_trips) \* 100, 2) as 'Contribution\_Percentage'

FROM fact\_trips

GROUP BY city\_id

),

Avg\_fare as (

SELECT c.city\_id,

city\_name,

COUNT(ft.trip\_id) as 'total\_trip',

SUM(ft.fare\_amount)/SUM(ft.distance\_travelled\_km) as 'avg\_fare\_per\_km',

SUM(ft.fare\_amount)/COUNT(ft.trip\_id) AS 'avg\_fare\_per\_trip'

FROM fact\_trips ft

inner join dim\_city c ON c.city\_id = ft.city\_id

group by c.city\_id

)

SELECT af.city\_name as 'City\_Name',

af.total\_trip as 'Total\_Trips' ,

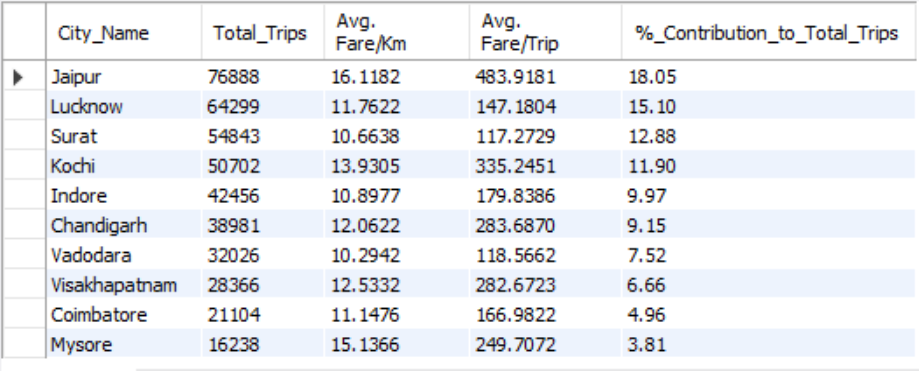
af.avg\_fare\_per\_km as 'Avg. Fare/Km',

af.avg\_fare\_per\_trip as 'Avg. Fare/Trip',

cp.Contribution\_Percentage as '%\_Contribution\_to\_Total\_Trips' FROM

Avg\_fare af

INNER JOIN contribution\_percentage cp ON cp.city\_id = af.city\_id

ORDER BY af.total\_trip DESC  
  


BR 2:

WITH Trips AS (

SELECT ft.city\_id,

c.city\_name,

monthname(ft.date) AS trip\_month,

COUNT(ft.trip\_id) as 'actual\_trips',

(tt.total\_target\_trips) as 'Target\_trips',

COUNT(ft.trip\_id)- (tt.total\_target\_trips) as 'difference' FROM trips\_db.fact\_trips ft

INNER JOIN targets\_db.monthly\_target\_trips tt ON tt.city\_id = ft.city\_id AND MONTH(tt.month) = MONTH(ft.date)

INNER JOIN trips\_db.dim\_city c ON c.city\_id = ft.city\_id

INNER JOIN trips\_db.dim\_date d ON d.date = ft.date

GROUP BY ft.city\_id, month(ft.date)

)

SELECT t.city\_name AS 'City\_Name',

t.trip\_month as 'Month\_Name',

t.actual\_trips,

t.Target\_trips,

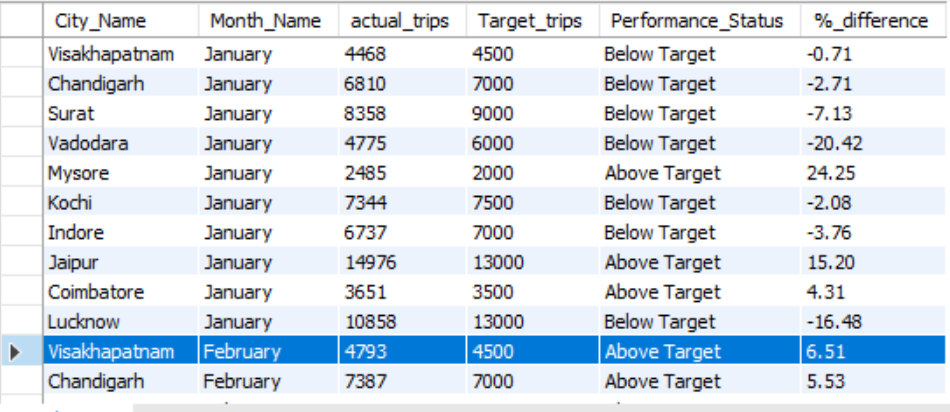
CASE

WHEN t.actual\_trips > t.Target\_trips THEN 'Above Target'

WHEN t.actual\_trips < t.Target\_trips THEN 'Below Target'

END AS 'Performance\_Status',

ROUND((t.difference/t.Target\_trips) \* 100,2) AS '%\_difference' FROM Trips t



BR 3:

SET SQL\_MODE = ' ';

WITH Passenger\_Count AS (

SELECT city\_id, trip\_count, SUM(repeat\_passenger\_count) AS 'passenger\_count\_city' ,

(SELECT SUM(repeat\_passenger\_count) FROM dim\_repeat\_trip\_distribution) as 'Passenger\_count'

FROM dim\_repeat\_trip\_distribution

GROUP BY trip\_count,city\_id )

SELECT

c.city\_name,

ROUND((SUM(CASE WHEN pc.trip\_count = 2 THEN pc.passenger\_count\_city ELSE 0 END) / MAX(pc.Passenger\_count))\*100, 2) AS '2\_trips\_%',

ROUND((SUM(CASE WHEN pc.trip\_count = 3 THEN pc.passenger\_count\_city ELSE 0 END) / MAX(pc.Passenger\_count))\*100, 2) AS '3\_trips\_%',

ROUND((SUM(CASE WHEN pc.trip\_count = 4 THEN pc.passenger\_count\_city ELSE 0 END) / MAX(pc.Passenger\_count))\*100, 2) AS '4\_trips\_%',

ROUND((SUM(CASE WHEN pc.trip\_count = 5 THEN pc.passenger\_count\_city ELSE 0 END) / MAX(pc.Passenger\_count))\*100, 2) AS '5\_trips\_%',

ROUND((SUM(CASE WHEN pc.trip\_count = 6 THEN pc.passenger\_count\_city ELSE 0 END) / MAX(pc.Passenger\_count))\*100, 2) AS '6\_trips\_%',

ROUND((SUM(CASE WHEN pc.trip\_count = 7 THEN pc.passenger\_count\_city ELSE 0 END) / MAX(pc.Passenger\_count))\*100, 2) AS '7\_trips\_%',

ROUND((SUM(CASE WHEN pc.trip\_count = 8 THEN pc.passenger\_count\_city ELSE 0 END) / MAX(pc.Passenger\_count))\*100, 2) AS '8\_trips\_%',

ROUND((SUM(CASE WHEN pc.trip\_count = 9 THEN pc.passenger\_count\_city ELSE 0 END) / MAX(pc.Passenger\_count))\*100, 2) AS '9\_trips\_%',

ROUND((SUM(CASE WHEN pc.trip\_count = 10 THEN pc.passenger\_count\_city ELSE 0 END) / MAX(pc.Passenger\_count))\*100, 2) AS '10\_trips\_%'

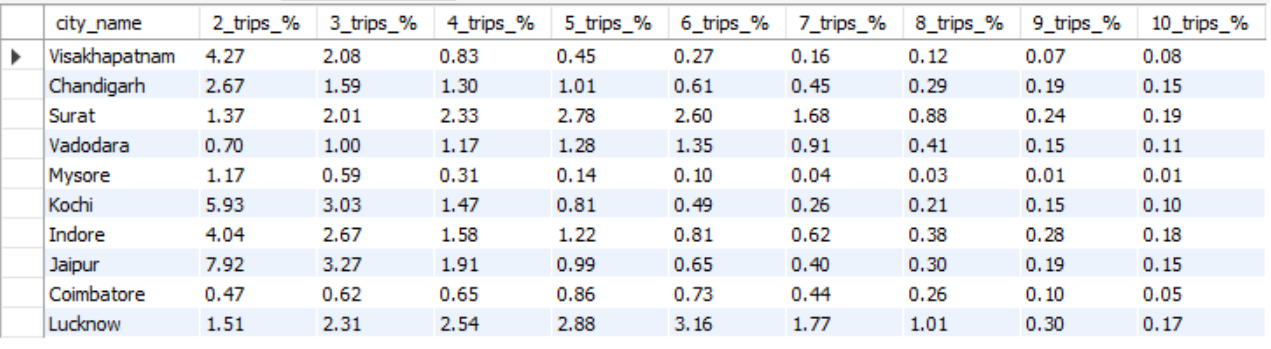
FROM

Passenger\_Count pc

INNER JOIN dim\_city c ON c.city\_id = pc.city\_id

GROUP BY

pc.city\_id,c.city\_name;



BR 4:

SELECT city\_name, Passenger, 'Top City' as City\_category

FROM (

SELECT c.city\_name, SUM(fps.new\_passengers) AS Passenger

FROM fact\_passenger\_summary fps

INNER JOIN dim\_city c ON c.city\_id = fps.city\_id

GROUP BY c.city\_name

ORDER BY SUM(fps.new\_passengers) DESC

LIMIT 3

) AS top\_cities

UNION ALL

SELECT city\_name, Passenger, 'Bottom City' as City\_category

FROM (

SELECT c.city\_name, SUM(fps.new\_passengers) AS Passenger

FROM fact\_passenger\_summary fps

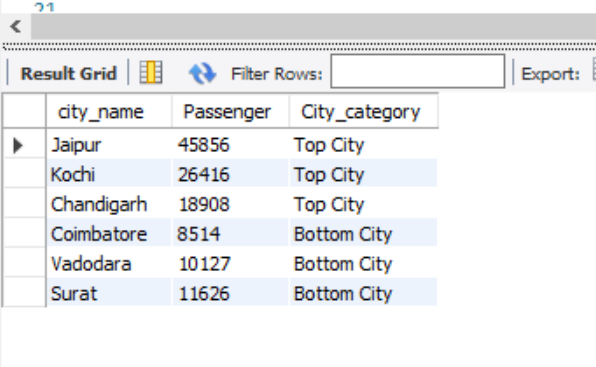
INNER JOIN dim\_city c ON c.city\_id = fps.city\_id

GROUP BY c.city\_name

ORDER BY SUM(fps.new\_passengers) ASC

LIMIT 3

) AS bottom\_cities;



BR 5:

SET SQL\_MODE = ' ';

WITH revenue AS (

SELECT c.city\_name as 'city\_name',

monthname(f.date) as 'Higest\_revenue\_month' ,

SUM(f.fare\_amount) as 'Revenue',

ROUND( (SUM(f.fare\_amount) / (SELECT SUM(fare\_amount) FROM fact\_trips))\*100,2) as 'Pecentage\_contribution'

FROM fact\_trips f

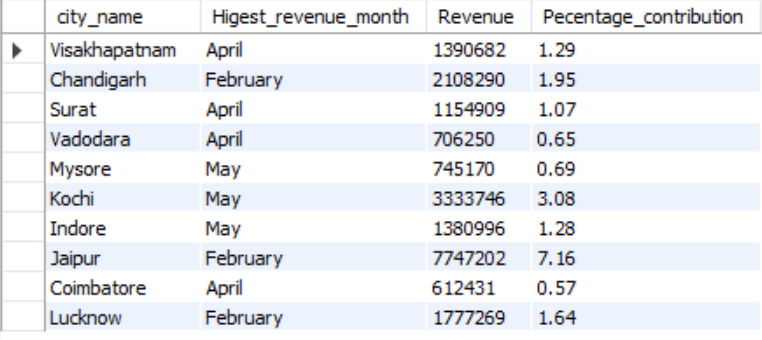
INNER JOIN dim\_city c ON c.city\_id = f.city\_id

group by c.city\_name , monthname(f.date)

)

SELECT r.city\_name, r.Higest\_revenue\_month, r.Revenue, r.Pecentage\_contribution FROM revenue r

WHERE r.revenue = (SELECT MAX(r1.revenue) FROM revenue r1 WHERE r1.city\_name = r.city\_name)



BR 6:

SET SQL\_MODE = ' ';

WITH MonthlyRate AS (

SELECT

fp.city\_id,

MONTHNAME(fp.month) as 'month\_name',

fp.total\_passengers,

fp.repeat\_passengers,

ROUND((fp.repeat\_passengers/fp.total\_passengers) \*100,2) AS 'monthly\_repeat\_pax\_rate'

FROM fact\_passenger\_summary fp

),

CityRates AS (

SELECT

fp.city\_id,

SUM(fp.total\_passengers),

SUM(fp.repeat\_passengers),

ROUND((SUM(fp.repeat\_passengers)/SUM(fp.total\_passengers))\*100,2 ) as 'city\_repeat\_pax\_Rate'

FROM fact\_passenger\_summary fp

GROUP BY fp.city\_id

)

SELECT city.city\_name, m.month\_name, m.total\_passengers as 'total\_passengers', m.repeat\_passengers as 'repeat\_passengers', m.monthly\_repeat\_pax\_rate, c.city\_repeat\_pax\_Rate FROM MonthlyRate m

INNER JOIN CityRates c ON c.city\_id = m.city\_id

INNER JOIN dim\_city city ON city.city\_id = m.city\_id

