

Good Cabs

Goodcabs is a growing cab service company focused on tier-2 cities in India, providing reliable transport while empowering local drivers. In just two years, it has built a strong market presence with operations in 10 cities. Committed to passenger satisfaction and sustainable driver earnings, Goodcabs aims to enhance trip volume, customer retention, and service quality in 2024.





Hi there! I'm Gajanand

Introduction

"I'm a Data Analyst skilled in SQL, Python, Power BI, and Excel, with experience in EDA, data visualization, and ETL. Passionate about turning data into actionable insights to drive business decisions.



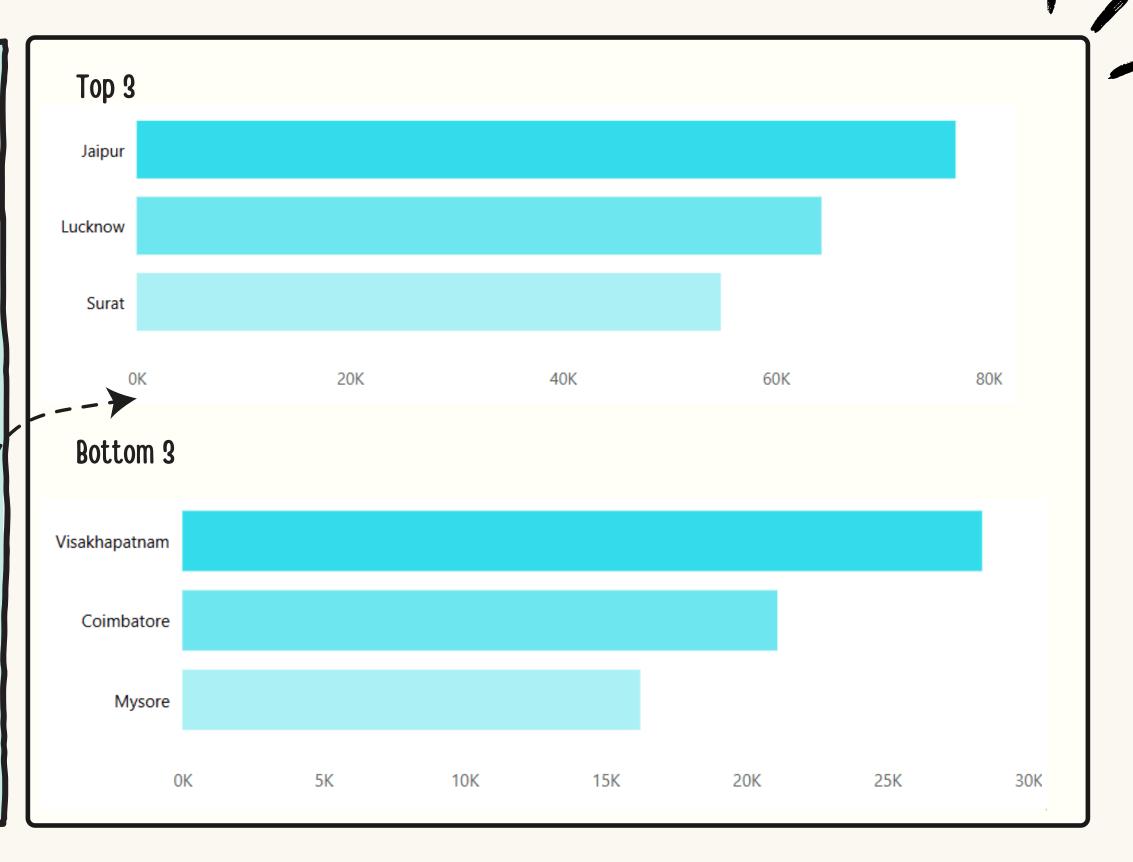
Let's solve business problems...

- 11 Top & Bottom Performing Cities
- 2 City-wise Fare Efficiency
- 3 City-wise Ratings by Passenger Type
- Peak & Low-Demand Months by City
- 5 Weekday vs. Weekend Demand Patterns
- 6 Repeat Passenger Frequency & City Contribution
- Monthly Performance vs. Targets



PRIMARY QUESTIONS

- Top & Bottom Performing Cities
 - Which three cities have the highest and lowest total trip volume over the analysis period?



Cooos Overtions

- City-wise Fare Efficiency ____
 - What is the average fare per trip in each city?
 - How does it compare to the average trip distance?
 - Which cities have the highest and lowest fare per trip, and what does this indicate about pricing efficiency?

city_name	ATD KM	FP KM	AFPT ▼
Jaipur	30.02	16.12	483.92
Kochi	24.07	13.93	335.25
Chandigarh	23.52	12.06	283.69
Visakhapatnam	22.55	12.53	282.67
Mysore	16.50	15.14	249.71
Indore	16.50	10.90	179.84
Coimbatore	14.98	11.15	166.98
Lucknow	12.51	11.76	147.18
Vadodara	11.52	10.29	118.57
Surat	11.00	10.66	117.27
Total	19.13	13.28	254.02

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Primary Questions

- **3** City-wise Ratings by Passenger Type
 - What are the average passenger and driver ratings for each city?
 - How do ratings vary between new and repeat passengers?
 - Which cities receive the highest and lowest ratings?

Pa	ssenger vs driver	ratings	New vs re	peated Passenge	r ratings
city_name ▼	avg passenger rating	avg driver rating	city_name	new	repeated
Visakhapatnam	8.43	8.99	Chandigarh	8.49	7.49
Vadodara -	6.61	6.65	Coimbatore	8.49	7.48
Surat	6.42	6.59	Indore	8.49	7.47
Mysore	8.70	8.98	Jaipur	8.99	7.99
Lucknow	6.49	6.62	Kochi	8.99	8.00
Kochi	8.52	8.99	Lucknow	7.98	5.99
Jaipur	8.58		Mysore	8.98	7.98
Indore	7.83		Surat	7.98	6.00
Coimbatore	7.88		Vadodara	7.98	5.98
Chandigarh	7.98	7.72	Visakhapatna	m 8.98	7.99
Top 3 cities by av	g. passenger rating		Bottom 3 cities by avo	g passenger ratin	9
Mysore		8.7	Vadodara		6.6
Jaipur		8.6	Lucknow		6.5
Kochi		8.5	Surat		6.4
0	-		0	5	

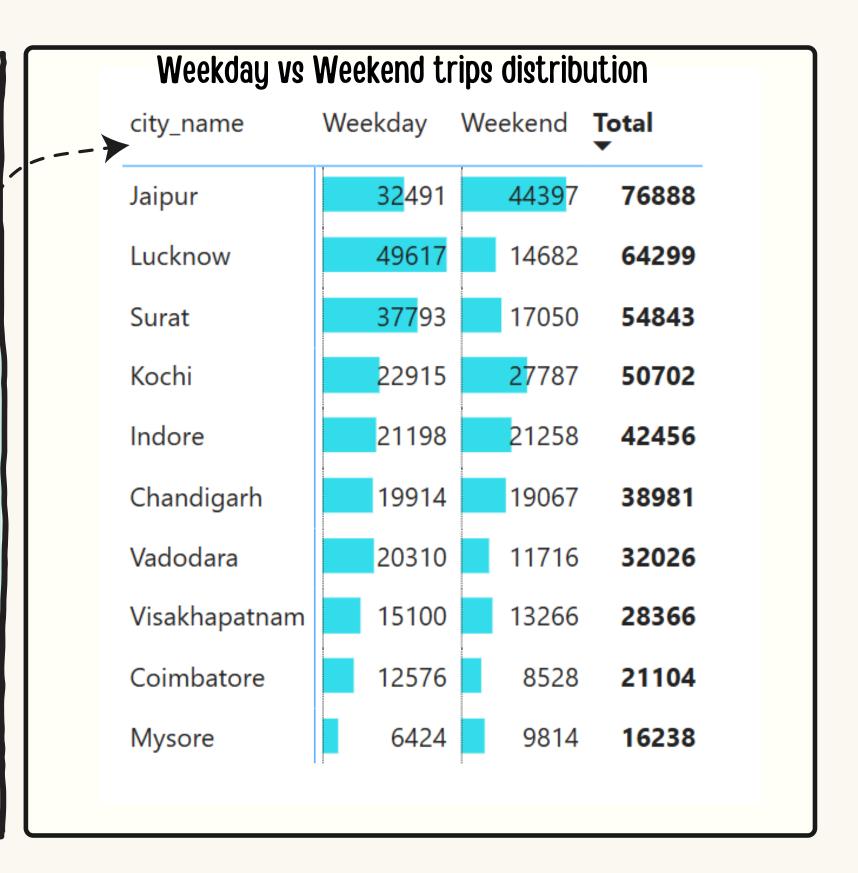
- Peak & Low-Demand Months by City
 - In each city, which month sees the highest number of trips (peak demand)?
 - Which month has the lowest number of trips (low demand)?

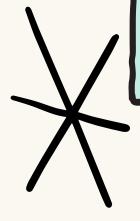
High and low dema	High and low demand month for each City				
city_name	Peak Demand Month	Low Demand Month			
Chandigarh	February	April			
Coimbatore	March	June			
Indore	May	June			
) Jaipur	February	June			
Kochi	May	June			
Lucknow	February	May			
Mysore	May	January			
Surat	April	January			
Vadodara	April	June			
Visakhapatnam	April	January			



Primary Questions

- **5** Weekday vs. Weekend Demand Patterns
 - How do weekday and weekend trip volumes compare across cities?
 - Are there cities where weekend demand is significantly higher or lower than weekdays?



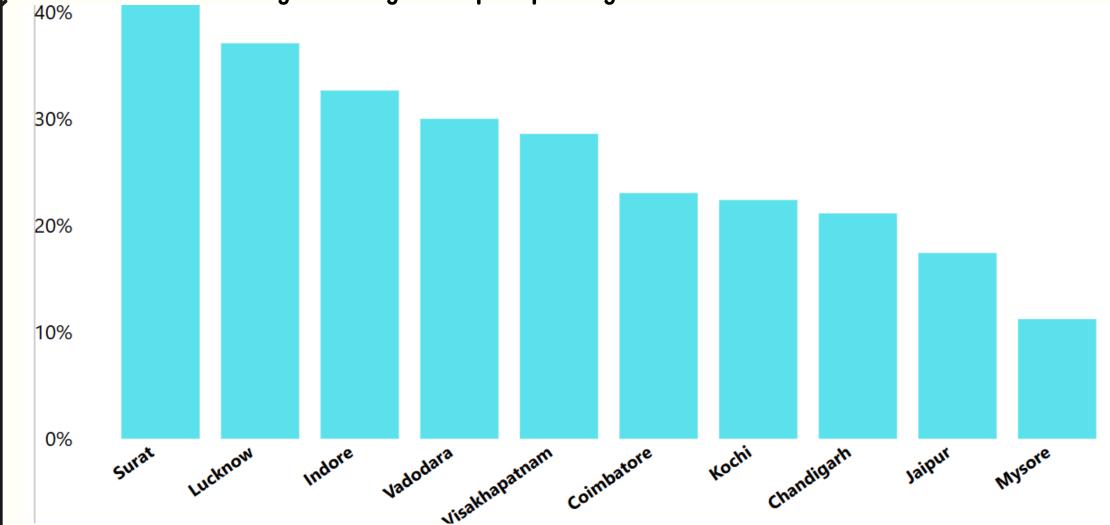


- Repeat Passenger Frequency & City Contribution
 - What percentage of repeat passengers take multiple trips (e.g., 2, 3, or more)?
 - Which cities contribute the most to repeat trip frequencies?

Repeat passenger Frequency & City Contribution

trip_count ▼	Chandigarh	Coimbatore	Indore	Jaipur	Kochi	Lucknow	Mysore	Surat	Vadodara	Visakhapatnam '
9-Trips	2.33%	2.31%	2.38%	1.20%	1.21%	1.91%	0.54%	1.74%	2.05%	0.88%
8-Trips	3.47%	6.15%	3.26%	1.90%	1.65%	6.43%	1.42%	6.24%	5.78%	1.39%
7-Trips	5.48%	10.47%	5.24%	2.52%	2.11%	11.33%	1.76%	11.89%	12.86%	1.98%
6-Trips	7.42%	17.64%	6.85%	4.13%	3.91%	20.18%	4.06%	18.45%	19.08%	3.19%
5-Trips	12.21%	20.62%	10.34%	6.29%	6.48%	18.42%	5.82%	19.75%	18.06%	5.44%
4-Trips	15.74%	15.56%	13.40%	12.12%	11.81%	16.20%	12.73%	16.55%	16.52%	9.98%
3-Trips	19.25%	14.82%	22.69%	20.73%	24.35%	14.77%	24.44%	14.26%	14.17%	24.96%
2-Trips	32.31%	11.21%	34.34%	50.14%	47.67%	9.66%	48.75%	9.76%	9.87%	51.25%
10-Trips	1.79%	1.22%	1.51%	0.97%	0.81%	1.10%	0.47%	1.35%	1.61%	0.92%





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Primary Questions

- 7 Monthly Performance vs. Targets
 - How do cities perform against monthly targets for total trips, new passengers, and average passenger ratings?
 - Which cities consistently meet, exceed, or miss targets?

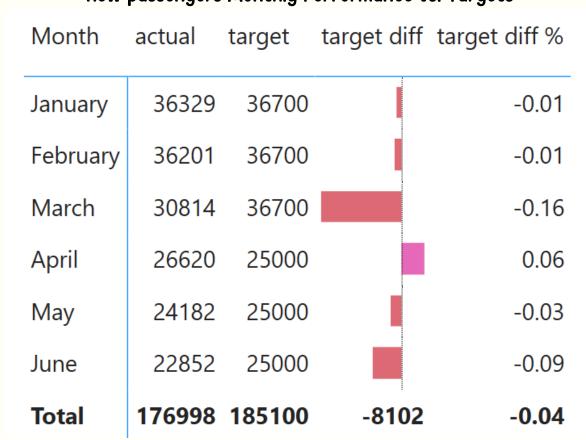


Target v/s Actual total trips							
city_name	actual trips	target trips	% diff				
Jaipur	76888	67500	13.91%				
Mysore	16238	13500	20.28%				
Kochi	50702	49500	2.43%				
Coimbatore	21104	21000	0.50%				
Chandigarh	38981	39000	-0.05%				
Visakhapatnam	28366	28500	-0.47%				
Indore	42456	43500	-2.40%				
Surat	54843	57000	-3.78%				
Vadodara	32026	37500	-14.60%				
Lucknow	64299	72000	-10.70%				
Total	425903	429000	-3097 -0.72%				

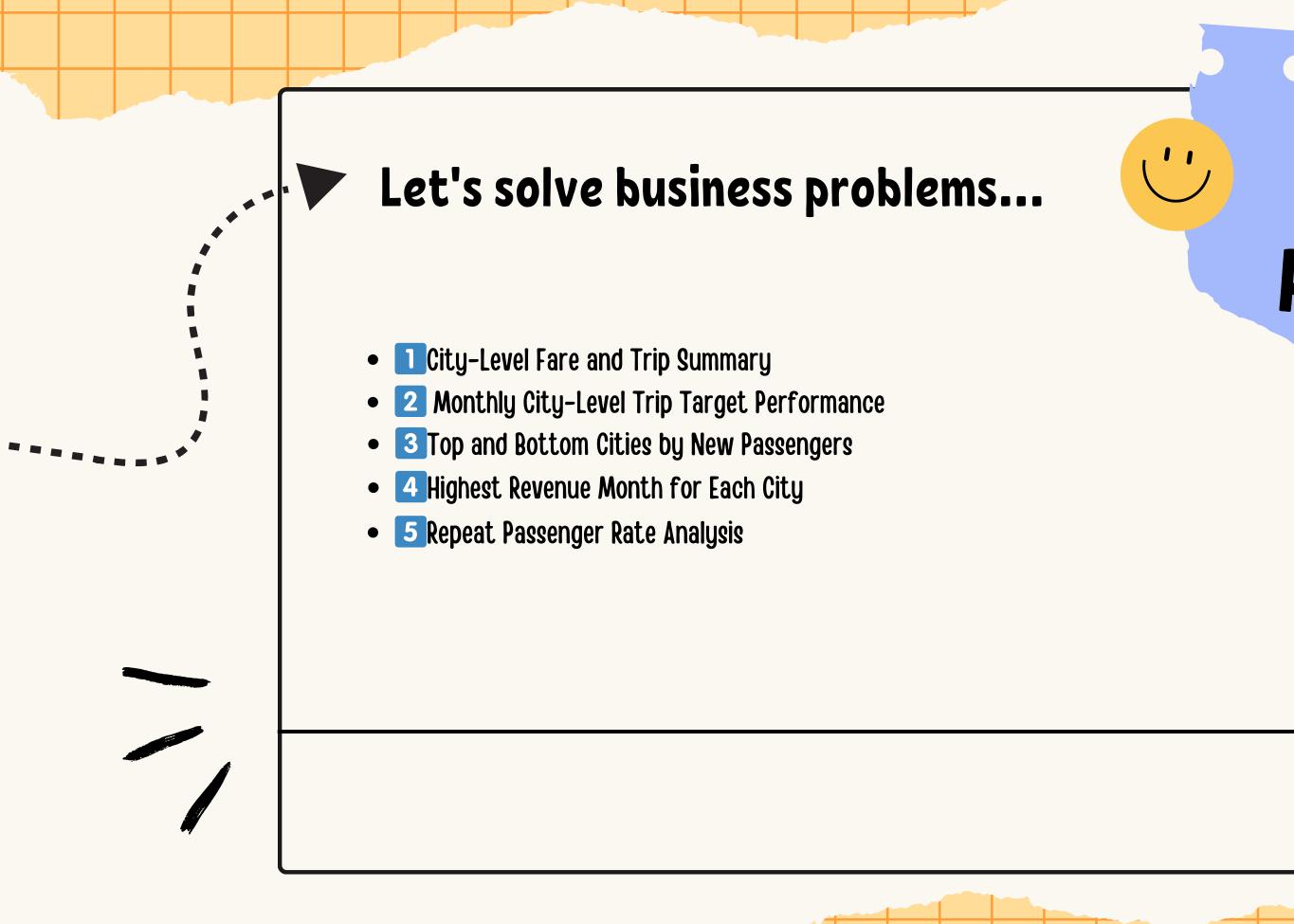
Actuals vs. Targets passengers ratings

city_name	Actual Rating	Target Rating
Mysore	8.70	8.50
Jaipur	8.58	8.25
Kochi	8.52	8.50
Visakhapatnam	8.43	8.50
Chandigarh	7.98	8.00
Coimbatore	7.88	8.25
Indore	7.83	8.00
Vadodara	6.61	7.50
Lucknow	6.49	7.25
Surat	6.42	7.00

new passengers Monthly Performance vs. Targets







AD-HOC PROBLEMS

business Request - 1: .

City-Level Fare and Trip Summary Report Generate a report that displays the total trips, average fare per km, average fare per trip, and the percentage contribution of each city's trips to the overall trips. This report will help in assessing trip volume, pricing efficiency, and each city's contribution to the overall trip count.

Fields: city_name total_trips avg_fare_per_km avg_fare_per_trip %_contribution_to_total_trips

SELECT

```
dc.city_name,
count(ft.trip_id) as total_trips,
sum(ft.fare_amount) as total_fare,
sum(ft.distance_travelled_km) as total_distance_travelled,
round(count(ft.trip_id) *100.0/sum(count(trip_id)) over(),2) as cotribution_pct

FROM fact_trips ft
join dim_city dc
on ft.city_id = dc.city_id
group by dc.city_name;
```

city_name	total_trips	total_fare	total_distance_travelled	cotribution_pct
Visakhapatnam	28366	8018282	639765	6.66
Chandigarh	38981	11058401	916783	9.15
Surat	54843	6431599	603122	12.88
Vadodara	32026	3797200	368867	7.52
Mysore	16238	4054745	267877	3.81
Kochi	50702	16997596	1220167	11.90
Indore	42456	7635228	700629	9.97
Jaipur	76888	37207497	2308418	18.05
Coimbatore	21104	3523992	316121	4.96
Lucknow	64299	9463551	804571	15.10
	Visakhapatnam Chandigarh Surat Vadodara Mysore Kochi Indore Jaipur Coimbatore	Visakhapatnam 28366 Chandigarh 38981 Surat 54843 Vadodara 32026 Mysore 16238 Kochi 50702 Indore 42456 Jaipur 76888 Coimbatore 21104	Visakhapatnam 28366 8018282 Chandigarh 38981 11058401 Surat 54843 6431599 Vadodara 32026 3797200 Mysore 16238 4054745 Kochi 50702 16997596 Indore 42456 7635228 Jaipur 76888 37207497 Coimbatore 21104 3523992	Visakhapatnam 28366 8018282 639765 Chandigarh 38981 11058401 916783 Surat 54843 6431599 603122 Vadodara 32026 3797200 368867 Mysore 16238 4054745 267877 Kochi 50702 16997596 1220167 Indore 42456 7635228 700629 Jaipur 76888 37207497 2308418 Coimbatore 21104 3523992 316121



business Request - 2:

Monthly City-Level Trips Target Performance Report Objective:

Generate a report that evaluates the target performance for trips at the monthly and city level.

Requirements:

For each city and month, compare actual total trips with target trips and categorize performance as follows:

- "Above Target" → If actual trips > target trips
- "Below Target" \rightarrow If actual trips \leq target trips Additionally, calculate the percentage difference between actual and target trips to quantify the performance gap.

Fields in the Report:

- city_name
- month_name
- actual_trips
- target_trips
- performance_status (Above Target / Below Target)
- %_difference

```
ALGORITHM = UNDEFINED
   DEFINER = `root`@`localhost`
   SQL SECURITY DEFINER
VIEW `actual_vs_trget_trips` AS
   SELECT
       `att`.`city_name` AS `city_name`,
       `att`.`month_name` AS `month_name`,
       `att`.`total_trips` AS `actual_trips`,
       `mtt`.`total target trips` AS `target trips`,
       (`att`.`total_trips` - `mtt`.`total_target_trips`) AS `trips_difference`
   FROM
       (`city_and_monthly_total_trips` `att`
       JOIN `targets db`.`monthly target trips` `mtt` ON (((`mtt`.`city id` = `att`.`city id`)
           AND (MONTHNAME(`mtt`.`month`) = `att`.`month_name`))))
SELECT *,
     case
    when actual_trips > target_trips then "Above target" else "Below target"
     end as performance_status,
     round(((trips_difference*100)/target_trips),2) as difference_pct
 FROM trips_db.actual_vs_trget_trips;
```

city_name	month_name	actual_trips	target_trips	trips_difference	performance_status	difference_pct
Visakhapatnam	January	4468	4500	-32	Below target	-0.71
Chandigarh	January	6810	7000	-190	Below target	-2.71
Surat	January	8358	9000	-642	Below target	-7.13
Vadodara	January	4775	6000	-1225	Below target	-20.42
Mysore	January	2485	2000	485	Above target	24.25
Kochi	January	7344	7500	-156	Below target	-2.08
Indore	January	6737	7000	-263	Below target	-3.76
Jaipur	January	14976	13000	1976	Above target	15.20
	-					



Business Request - 3:

identify Cities with Highest and Lowest Total New Passengers

Objective:

Generate a report that calculates the total number of new passengers for each city.

- Rank the cities based on the number of new passengers.
- Identify the top 3 cities with the highest number of new passengers.
- Identify the bottom 3 cities with the lowest number of new passengers.
- Categorize them as "Top 3" or "Bottom 3" accordingly. Fields in the Report:
 - city_name
 - total_new_passengers
 - city_category (Top 3 / Bottom 3)

•

```
with city_rank as(
SELECT dc.city_name,sum(ps.new_passengers) as total_new_passengers,
rank() over(order by sum(ps.new_passengers) desc) as rank_high,
rank() over(order by sum(ps.new_passengers) asc) as rank_low
FROM trips_db.fact_passenger_summary ps
join dim_city dc
on dc.city_id = ps.city_id
group by dc.city_name
order by total_new_passengers
select city_name,total_new_passengers,
case
    when rank high <=3 then "top 3"
    when rank low <=3 then "bottom 3"
    else "others"
end as categoty
from city rank
```

order by total new passengers desc

city_name	total_new_passengers	categoty
Jaipur	45856	top 3
Kochi	26416	top 3
Chandigarh	18908	top 3
Lucknow	16260	others
Indore	14863	others
Visakhapatnam	12747	others
Mysore	11681	others
Surat	11626	bottom 3
Vadodara	10127	bottom 3
Coimbatore	8514	bottom 3

Business Request - 4:

Identify Month with Highest Revenue for Each City Objective:

Generate a report that determines the month with the highest revenue for each city.

Display the month name, revenue amount, and percentage contribution of that month's revenue to the city's total revenue.

Fields in the Report:

- city_name
- highest_revenue_month
- revenue
- percentage_contribution (%)

```
with ctel as (select dc.city_name,dd.month_name,sum(fc.fare_amount) as revenue
   from fact trips fc
   join dim_city dc
   on fc.city_id = dc.city_id
   join dim_date dd
   on dd.date = fc.date
   group by city_name, month_name
   cte2 as (
   select *,
      rank() over(partition by city_name order by revenue desc) as top_month
   from cte1
select *,
        revenue*100/sum(revenue) over(partition by city_name) as contribution_pct
      from cte2
  select city_name,month_name,revenue,contribution_pct from cte3
```

where top_month = 1

city_name	month_name	revenue	contribution_pct
Chandigarh	February	2108290	19.0651
Coimbatore	April	612431	17.3789
Indore	May	1380996	18.0872
Jaipur	February	7747202	20.8216
Kochi	May	3333746	19.6130
Lucknow	February	1777269	18.7801
Mysore	May	745170	18.3777
Surat	April	1154909	17.9568
Vadodara	April	706250	18.5992
Visakhapatnam	April	1390682	17.3439



Business Request - 5:

Repeat Passenger Rate Analysis

Objective:

Generate a report that calculates two key repeat passenger metrics:

- 1. Monthly Repeat Passenger Rate: The percentage of repeat passengers for each city and month.
- 2. City-wide Repeat Passenger Rate: The overall percentage of repeat passengers for each city across all months.

Fields in the Report:

- city_name
- month
- total_passengers
- repeat_passengers
- monthly_repeat_passenger_rate (%)
- city_repeat_passenger_rate (%)

```
    ♥ WITH monthly_repeat_analysis AS (

        SELECT
            city_name,
             month,
            total_passengers AS total_passengers,
            repeat_passengers AS repeat_passengers
        FROM fact_passenger_summary s
        join dim_city c
        on s.city_id = c.city_id
        GROUP BY city name, month
    SELECT
        city name,
        month,
        total_passengers,
        repeat_passengers,
        ROUND(100.0 * repeat_passengers / NULLIF(total_passengers, 0), 2) AS monthly_repeat_passenger_rate,
        ROUND(100.0 * SUM(repeat_passengers) OVER (PARTITION BY city_name) /
                    NULLIF(SUM(total_passengers) OVER (PARTITION BY city_name), 0), 2)
                    AS city_repeat_passenger_rate
    FROM monthly_repeat_analysis
    ORDER BY city_name, month;
```

city_name	month	total_passengers	repeat_passengers	monthly_repeat_passenger_rate	city_repeat_passenger_rate
Chandigarh	2024-01-01	4640	720	15.52	21.14
Chandigarh	2024-02-01	4957	853	17.21	21.14
Chandigarh	2024-03-01	4100	872	21.27	21.14
Chandigarh	2024-04-01	3285	789	24.02	21.14
Chandigarh	2024-05-01	3699	969	26.20	21.14
Chandigarh	2024-06-01	3297	867	26.30	21.14
Coimbatore	2024-01-01	2214	392	17.71	23.05
Coimbatore	2024-02-01	1993	346	17.36	23.05
Coimbatore	2024-03-01	1965	427	21.73	23.05
Coimbatore	2024-04-01	1722	480	27.87	23.05
Coimbatore	2024-05-01	1543	504	32.66	23.05
Coimbatore	2024-06-01	1628	402	24.69	23.05
Indore	2024-01-01	3876	1033	26.65	32.68
Indore	2024-02-01	3981	1103	27.71	32.68

KEY FINDINGS

- 1. Surat and Lucknow have the lowest fare per trip but high demand, indicating potential underpricing
- 2. Mysore & Coimbatore have the lowest repeat passengers, indicating a lack of customer loyalty.
- 3.Lucknow: Despite high demand, it is missing trip targets, indicating possible supply constraints
- 4. Jaipur & Kochi excel in new passenger growth, while Coimbatore & Vadodara lag, indicating gaps in awareness or service reach.

STRATEGIC SUGGESTIONS:

- 1. Optimize Pricing in High-Demand Cities Adjust fares in Surat & Lucknow to maximize revenue while maintaining affordability.
- 2. Improve Trip Target Performance Expand driver availability in Lucknow to meet high demand; boost marketing in Vadodara to increase ridership.
- 3. Enhance Repeat Passenger Retention Implement loyalty programs in low-retention cities like Mysore & Coimbatore to increase customer stickiness.
- 4. Boost New Passenger Growth Strengthen outreach in Coimbatore & Vadodara with targeted marketing, discounts, and partnerships.
- 5. Optimize Supply & Demand Balance Use demand heatmaps in Lucknow to allocate cabs efficiently; introduce surge pricing and fleet expansion if needed.
- 6. Increase Corporate & Institutional Tie-ups Partner with businesses, universities, and IT hubs to drive consistent ride demand in underperforming cities.

