**Power BI Project Summary**

1. **Data Model Development**: Given multiple data sources, we developed a robust data model to ensure consistency and accuracy.
2. **Optimizing Power Query**: We encountered RAM limitations while running Power Query, which required careful optimization.
3. **Data Loading**: We loaded cleaned and transformed data into Power BI.
4. **Data Transformation**:
   * Created headers for clarity.
   * Merged queries using different types of joins (left outer, right outer, full outer, inner, left anti, right anti).
   * Replaced null values with meaningful alternatives.
5. **Measures Table**: Measures were detached from specific tables, allowing flexibility across the dashboard.
6. **Slicers for Sales and Quantity**: Interactive slicers were added for better data exploration.
7. **Edit Interactions**: Ensured slicers didn’t affect total amounts or quantities.
8. **Date Formatting**: Transformed date strings into a consistent YYYY format.
9. **Top Cities Bar Chart**: Visualized top cities using a bar chart.
10. **Cards and Images**: Added cards for ratings, orders, and inserted images.
11. **DAX Measures**: Calculated total orders, cities, and customers.
12. **Image Actions**: Enabled navigation between pages using images.
13. **Dynamic Labeling**: DAX measures dynamically labeled bar charts (e.g., Top 5 cities by Amount).
14. **Gradient Effects**: Enhanced bar charts with gradients.
15. **User Count Column Chart**: Created dynamic user count measures using DAX.
16. **Yearly Measures**: Calculated metrics for the current and previous years.
17. **User Gain and Loss Metrics**: Developed measures to track user gains and losses.
18. **Sales Metrics**: Calculated sales for the current and previous years.
19. **Gender Analysis**: Clustered bar chart analyzed user retention/gain by gender.
20. **Second Page**: Focused on customer retention by gender and total active customers by age.
21. **Third Page (Dashboard)**: Demographic-wise analysis for sales, ratings, and active users.
22. **City Table**: Created a table with city-wise sales, ratings, and active users.
23. **Dropdown Navigation**: Implemented dropdown slicers for city, ratings, and restaurants.
24. **Inter-Report Navigation**: Enabled seamless navigation between dashboards.