Task 9 (Aggregation Functions)

Company Database

1. Count total number of employees in the Employees table.
2. Calculate average salary from the Salaries table.
3. Count employees in each department using Employees grouped by Dept_ID.
4. Find total salary per department by joining Employees and Salaries.
5. Show departments (Dept_ID) having more than 5 employees with their counts.

University Database

6. Count total number of students in the Student table.
7. Count number of students per city (group by City in Student).
8. Count students per course using Enrols (group by CourseID).
9. Count number of courses per department using Course (group by DepartmentID).
10. Count number of students assigned to each hostel (group by HostelID).

Airline Database

11. Count total flights in FLIGHT table.
12. Average available seats per leg using FLIGHT_LEG table.
13. Count flights scheduled per airline from FLIGHT grouped by Airline_ID.
14. Total payments per leg using LEG_INSTANCE table grouped by Flight_Leg_ID.
15. List flight legs with total payments > 10000 grouped by Flight_Leg_ID.

Hotel Database

16. Count total rooms across all hotels from Rooms table.
17. Average room price per night from Rooms table.
18. Count rooms per hotel grouped by Hotel_ID.
19. Sum booking cost per guest from Bookings grouped by Guest_ID.
20. Guests with total bookings > 5000 grouped by Guest_ID.

Bank Database

21. Count total number of customers in Customers table.
22. Average account balance from Accounts table.
23. Count accounts per branch grouped by Branch_ID.
24. Sum loan amounts per customer from Loans grouped by Customer_ID.

25. List customers with total loan > 200000 grouped by Customer_ID.

Library Database

26. Count total books in Books table.
27. Average book price from Books table.
28. Count books per library grouped by Library_ID.
29. Count books borrowed per member from Borrows table grouped by Member_ID.
30. List members who borrowed more than 3 books grouped by Member_ID.