CSE 4508 – RDBMS Programming Lab

Lab 4

You are a data analyst at a sports league office. You need to generate reports for team managers using data from the league database.

Tables:
- Teams (id, name, city)
- Players (id, name, team_id, salary)
- Matches (id, home_team, away_team, home_goals, away_goals)

Insert at least 8 values in each table.

Task A:
1. Calculate the total salary paid by each team to its players.
2. Find teams that scored more than 10 goals in total across all matches.
3. List the total matches won by each team.
4. Generate a league standing report with teams ranked by total points.
5. List teams along with their total goals scored and conceded.
6. Create a view called 'team_player_salaries' that lists each team's total salary paid to players. Use this view to find the teams that have paid over $10 million in total player salaries.

Task B:
Create a table called Grades with fields ID, Department (CSE, EEE, etc.), Programme (BSc, HD), Course Code (CSE 4508, CSE 4551, etc.) and Grade(A, A+, A-, etc.).

1. Show the hierarchical count of the number of individuals, based on Department, then Programme, then Course Code and Grades. Order them alphabetically, based on Department first, then Programme, etc. (Rollup).
2. Show the count across all possible combinations of these four dimensions (Cube).