



Assessment 02

Answer all the Questions

Section A

(3)

Aim: To use constraints and formulate the tables (created under Assessment 1) to have consistent data.

Apply below constraints over the relations and ensure that consistency is maintained in the data.

1. Set primary keys in every relation
2. Add foreign keys (referential integrity constraint)
3. Set a Not Null constraint on a column
4. Use check constraint and ensure only certain allowed values are entered in a specific column.
5. Set a column as unique
6. Use of 'On delete cascade'

Section B

(7)

Aim: To develop required queries for an employee database with required attributes appropriately [wherever needed] by inserting with a minimum 7 to 10 rows (that fulfil all the requirements to answer all the queries)

Note: your input to the tables should be in a way that it should return at least one/two rows for each of the following queries

1. Find the employees who earn the same salary as the minimum salary for each department
2. Retrieve the employees whose salary is greater than average salary of department.
3. Find out the project name having least number of employees working on it.
4. Display the names of all employees in department who work more than 10 hours per week on the 'SCOPE' project.
5. Find the names of all the employees who are directly supervised by 'Sundar Pichai'.
6. Find the names and addresses of all employees who work on at least one project located in Mumbai but whose department has no location in Mumbai.
7. For each project, list the project name and the total hours per week (by all employees) spent on that project.