

Lab 2

1. SQL BASIC QUERIES

- 1) Create two tables with names *emp* for employees and *dept* for departments.

- *dept*(deptno, *dname*)
- *emp*(eid, *ename*, *salary*, *deptno*)

Discuss what datatype to choose for each attribute.

- 2) You are provided with *dept_data.sql* and *emp_data.sql* scripts. Populate your tables using those files.
- 3) Write a script to show all the rows in *emp* table.
- 4) Write a script to show 5 of the employees who get more than 100 as their salary.
- 5) Create another table for projects:

- *prj*(pid, *pname*)

Projects and employees have a many-to-many relationship. We want to keep track of employees who have an active role in projects using an intermediate table named *prjmember*. What should the schema of the such table look like?

- 6) Insert these projects into *prj*:

- Project 'A' having employees 'manager', 'b', and 'o' involved.
- Project 'B' having employees 'a', 'b', 'c', and 'd' involved.
- Project 'C' having employees 'a', and, 'f' involved.
- Project 'D' having employees 'manager', 'f', 'h', 'i', and 'g' involved.

- 7) Change the name of project 'D' to 'E'.
- 8) Write a script to show a list of employee names with their department name.
- 9) Write a script to show a list of employee names who work in 'sales' or 'inventory' departments.
- 10) Write a script to show a list of department names without any employees.
- 11) Write a script to show the name, salary, and department number of the employees with the highest earnings in each department.
- 12) Write a script to show a list of project names with fewer than 4 employees involved.
- 13) Write a script to show the summation of salaries for the employees involved in project 'B'.
- 14) Write a script to show a list of project names with the average salary of the employees involved in them.