Name: Somisetty Sai Praneeth Date: 16-02-2022

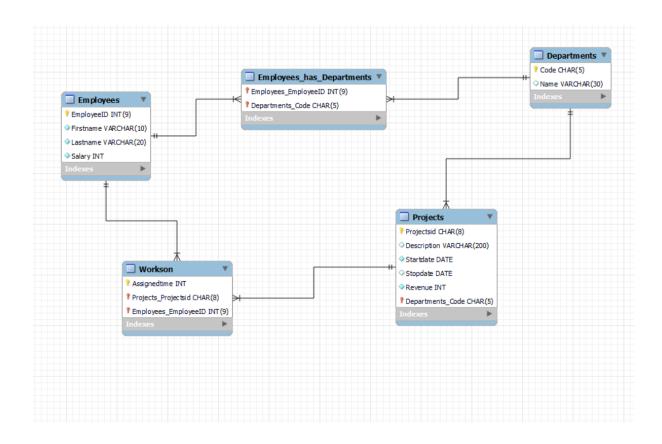
Roll. No: 20BCS125

<u>Aim:</u> The Aim of this lab assignment is to work upon the employee database which was created in last lab assignment. Also, to use where from, a select clause in MySQL workbench and also to make sure that we can relate any two tables in the database through a proper relationship.

Experiment: In this experiment we are able to work on following things;

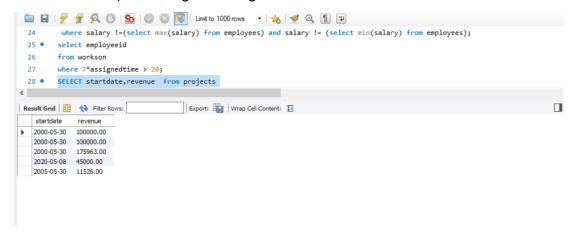
- 1. Create an employee database.
- 2. Create an employee table, which has details of employees.
- 3. Create a project table which includes projectID.
- 4. Create a department table so it helps to figure out various department's responsibility.
- 5. Create a workson table, where we applied where from, a select clause to find out employees who work for more than a specific given time.

Schema Diagram:

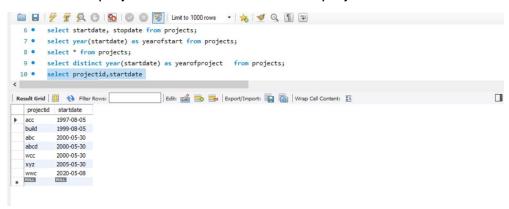


Results:

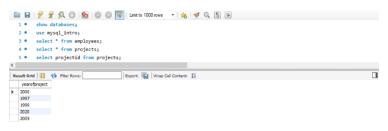
Q1: List the "magical" projects that have not started (indicated by a start date in the future or NULL) but are generating revenue.



Q2: Find the project ID and duration of each project.



Q3: Find the years a project started. Remove duplicates?



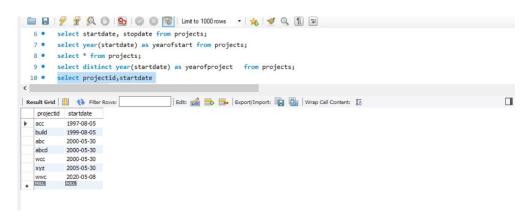
There was a duplicate year 2000, so that is removed.

Q4: Find the IDs of employees assigned to a project that is more than 20 hours per week. Write three queries using 20-, 40-, and 60-hour work weeks?



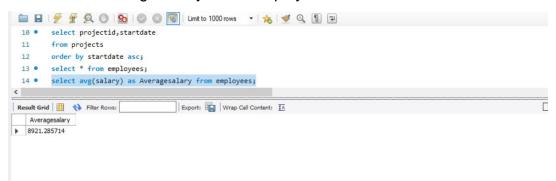
Employeeid: 125 and 127 works for more than 20 hours in a week.

Q5: For each project, list the ID and year the project started. Order the results in ascending order by year.



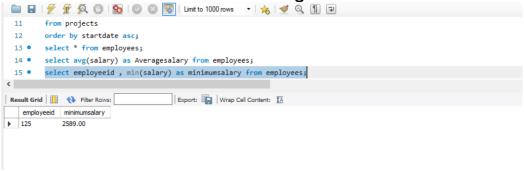
Here we used the "asec" keyword to print in ascending order the value of year.

Q6: Find the average salary for all employees.



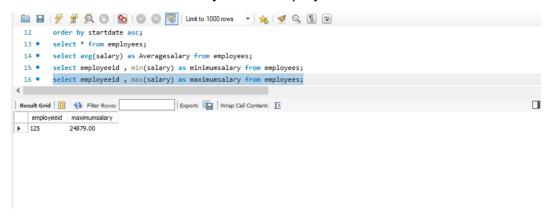
Here we used "avg" keyword to calculate average salary of employees.

Q7: Find the minimum salary for an employee



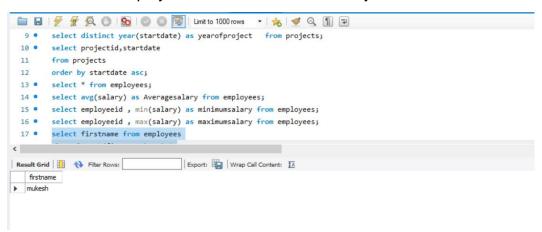
Keyword used here to find minimum salary is "min".

Q8: Find the maximum salary for an employee.

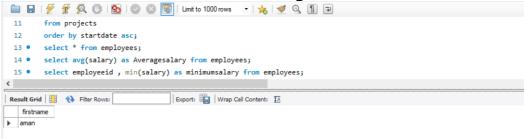


Keyword used to get maximum salary of employee is "max".

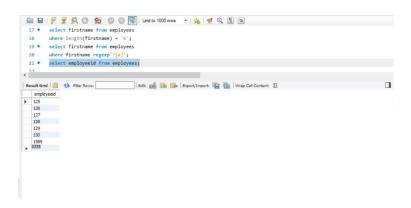
Q9: Find list of employees whose name has exactly six characters.



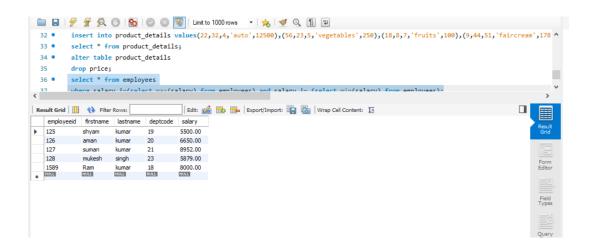
Q10: Find list of employees whose name starts with 'a'.



Q11: Find list of employees who works for more than one department/project.



Q12: Print all details of employees except the minimum and maximum paid employees.



Here we used to select and where clause to get the result of given query.

<u>Conclusion</u>: In this experiment we learn how to work on several query of given database. Also, to retrieve the queries we use select where from a clause. Also, we learn use of various keywords of MySQL like length, date, min, max, count, asec, avg etc.