



Spring-2024 DataBase Systems (CS-103)

Lab Task # 07

SQL-Joins

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Important Instruction

1. No plagiarism allowed.
2. You will required to submit only soft copy via google classroom
3. Late submission not accepted
4. Rename submission file DB24-Name-RegNo. like: **DB24-hamza-1234**
5. You will required to submit single **pdf**

Submission Example

Question .

Write query to select all data from table:

Solution

SELECT * FROM db.detail;

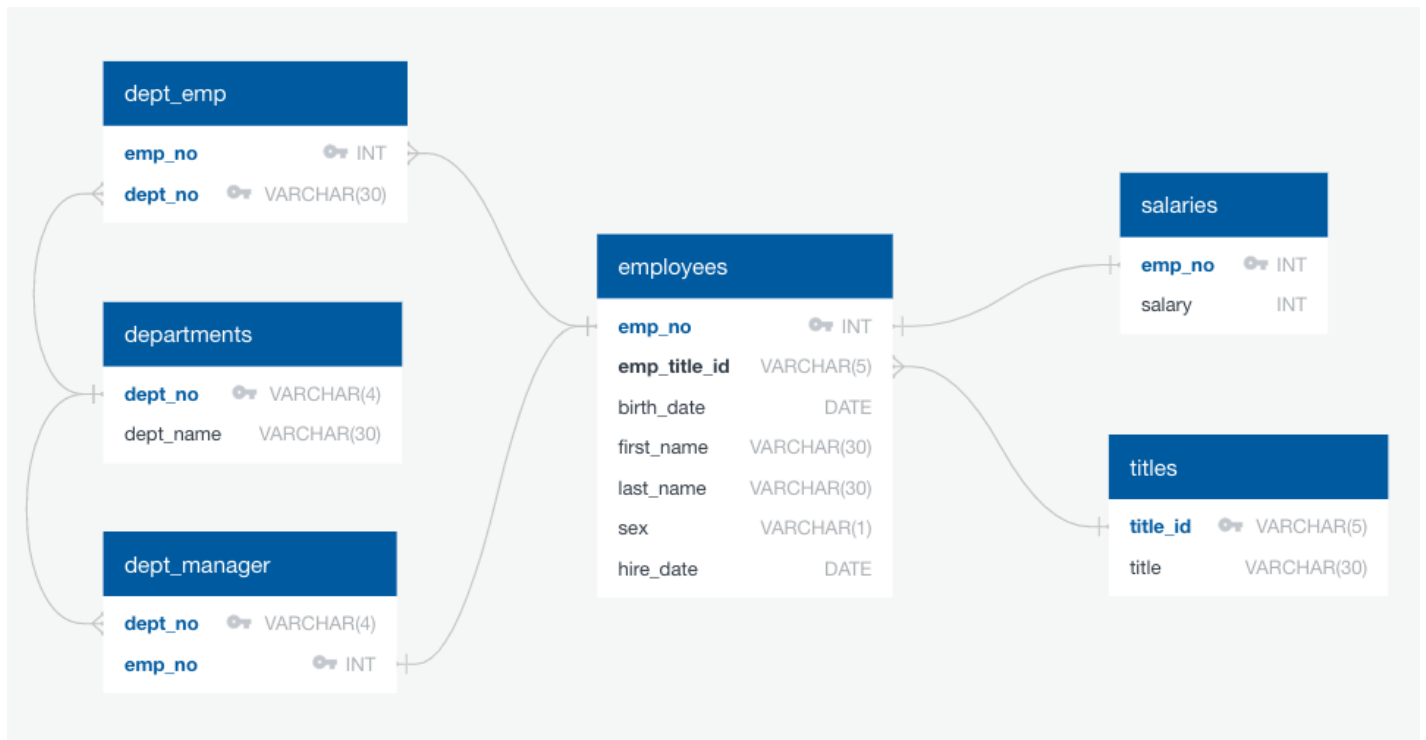
The screenshot shows a database query editor window titled 'Query 1'. The query text is 'SELECT * FROM sectionb.detail;'. Below the query, there is a 'Result Grid' showing the results of the query. The grid has four columns: 'id', 'i_name', 'phone', and 'email'. There are three rows of data, all with the same values: '1', 'Aqeel', '0323434', and 'assdfgf'.

	id	i_name	phone	email
1	1	Aqeel	0323434	assdfgf
1	1	Aqeel	0323434	assdfgf
1	1	Aqeel	0323434	assdfgf

Employee Database

It is a beautiful summer day. you have been hired as a new database Engineering. In this lab task, you will design the tables and answer questions about the data.

1. The Entity relation diagram are shown below and you will required to create database according to that.
2. The dataset enclosed in .csv file. you can get the data and insert maximum 7-10 rows in each table of yours own created database.

**Question 1**

List the following details of each employee: employee number, last name, first name, sex, and salary.

Question 2

List first name, last name, and hire date for employees who were hired in 1986.

Question 3

List the manager of each department with the following information: department number, department name, the manager's employee number, last name, first name.

Question 4

List the department of each employee with the following information: employee number, last name, first name, and department name.

Question 5

List first name, last name, and sex for employees whose first name is "Hercules" and last names begin with "B."

Question 6

List only single gender (Male/Female) employee which contain maximum salary. with the following information: employee number, last name, first name, Gender and salaries.

Question 7

List the department and salary of each employee with the following information: employee number, last name, first name, salary and department name.

Question 8

Apply left join on employee table with titles

Question 9

Apply Cross join with department and dept_manager.

Question 10

Apply Right join on employee table with department