Introduction to Database Systems (CSD317)

**Practice Lab#3**

# Date: 14/09/22

**You have to upload the screen shot (black screen) of output with the queries one by one, in a word doc & file name must be-> Roll No\_PracticeLab#3.**

Note: - Please use sniping tool to crop the query and its output.

1. Create and Display the tables department & employee (Drop both tables if already exist).

# Structure: Department Structure: Employee

|  |  |
| --- | --- |
| **Attribute Name** | **Data Declaration** |
| Dept\_ID | Int, primary key |
| Location | Varchar(20) & it should be auto filed as **SNU** if we don’t want to fill any value |

|  |  |
| --- | --- |
| **Attribute Name** | **Data Declaration** |
| Emp\_ID | Int, primary key, auto\_increment(*Auto Increment start value=****1001)*** |
| Emp\_Name | Varchar(30) & default value is **SNU Student** |
| Mgr\_ID | Int |
| Dept\_ID | Int |

**Text

Description automatically generated**

Display both the tables after entering the data as given below (Note: - enter data into both tables exactly the same as given below & do not insert the values for Emp\_ID, it will be auto filled.

**Table1: Department**

**Table 2: Employee**

|  |  |
| --- | --- |
| **Dept\_ID** | **Location** |
| 200 | Washington |
| 201 | California |
| 202 |  |
| 203 | Houston |
| 204 | Washington |
| 205 |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Emp\_ID** | **Name** | **Mgr\_ID** | **Dept\_ID** |
|  | Alex Bert | 1003 | 200 |
|  |  | 1003 | 200 |
|  | Mery Lee | Null | 200 |
|  |  | 1006 | 202 |
|  | Reyan Fert | 1006 | 202 |
|  | Luther Warn | Null | 202 |
|  | Amy | 1008 | 203 |
|  | Coogan | Null | 204 |

Text

Description automatically generated

# Join Operations:

* 1. Display the matching record (Emp\_ID, Name & Location) from both the tables.

Graphical user interface

Description automatically generated

* 1. Display the matching record (Emp\_ID, Name & Location) records from both tables and all records from department table.

Graphical user interface

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* 1. Display the matching record (Emp\_ID, Name & Location) records from both tables and all records from employee table.

Text

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Text

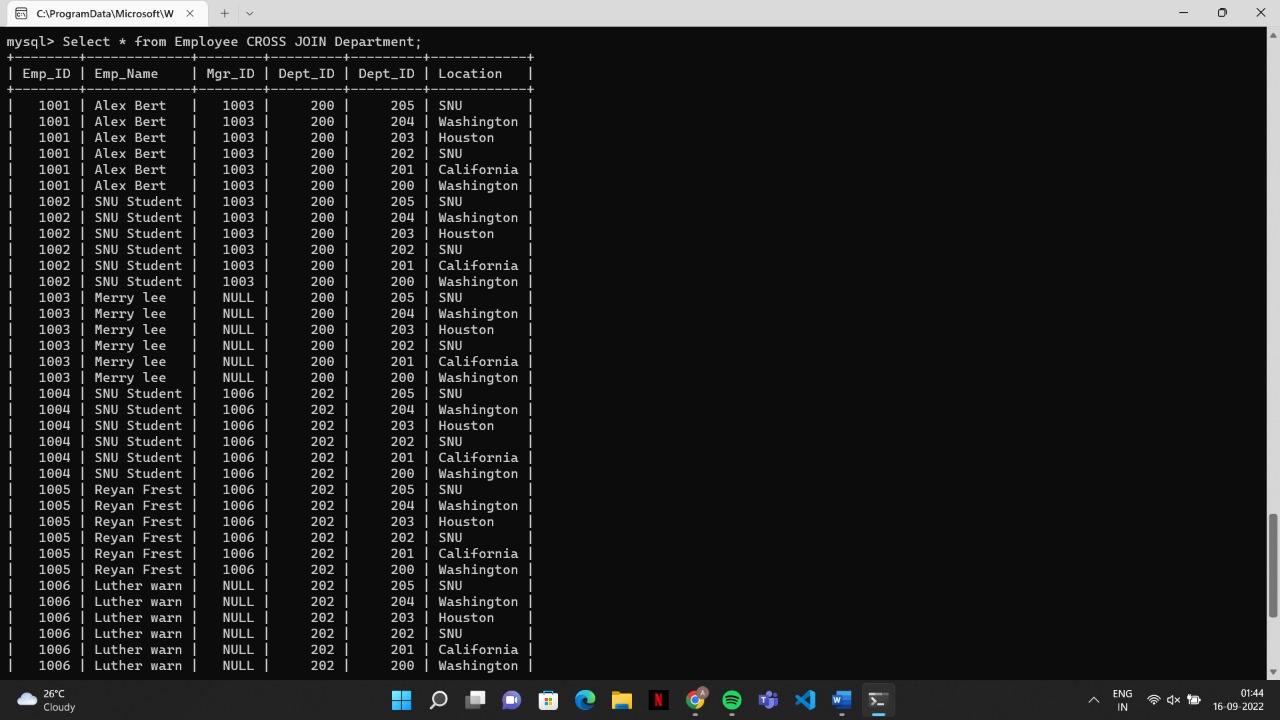
Description automatically generated

4.Display the list of employees (Emp\_ID & Name) who are only managers in ascending order (this is self-join).

Text

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5.Display the cross product from both the tables.



A computer screen capture

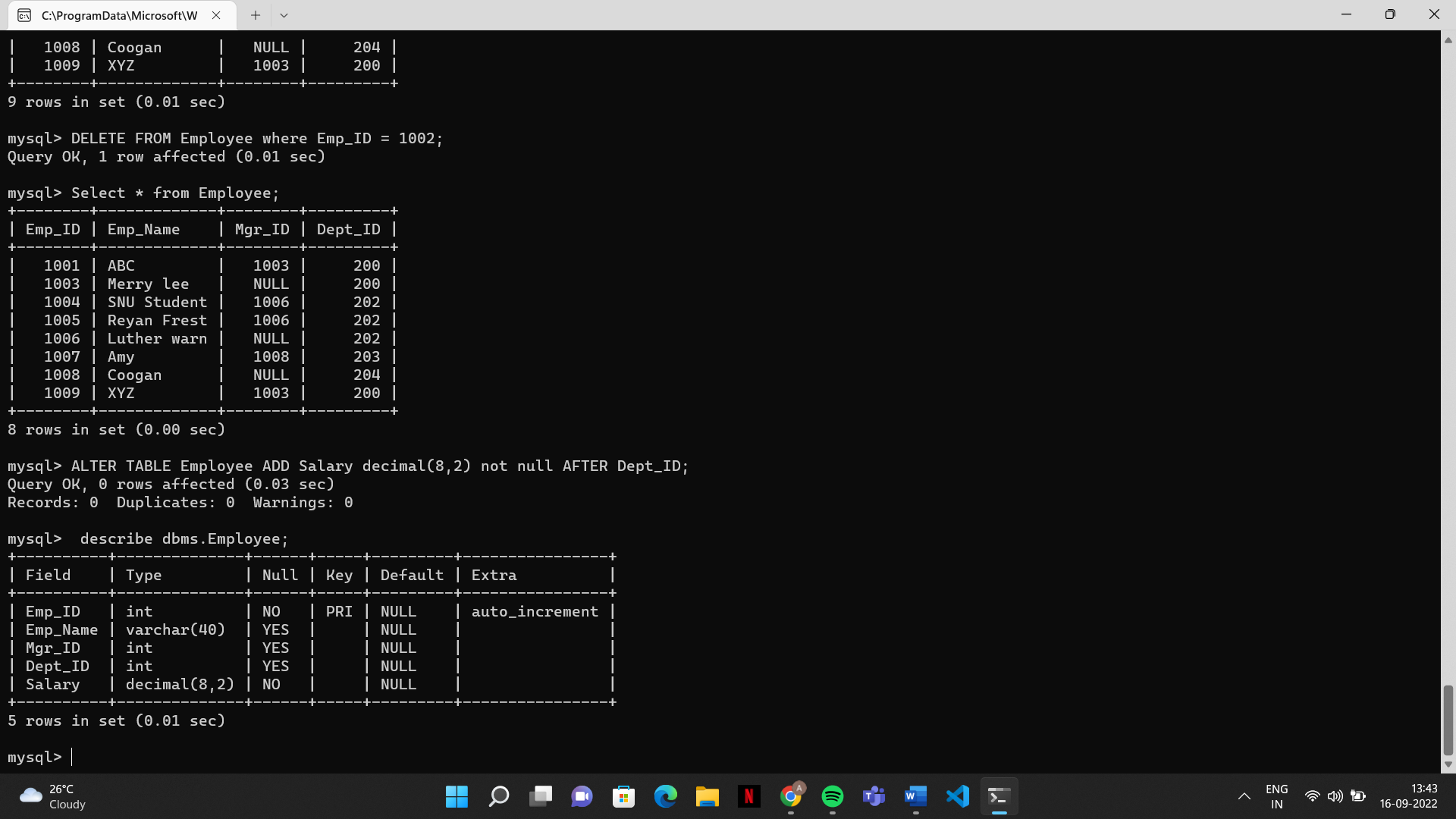
Description automatically generated with low confidence

**Alter Operation’s**: - Use employee table

# Add column in the table:-

* 1. Retrieve all details of table **employee** & it’s schema after adding a new column

# Salary decimal (8, 2) not null.



* 1. Insert one more records to **employee** table as given below:

|  |  |  |  |
| --- | --- | --- | --- |
| **Emp\_Name** | **Mgr\_ID** | **Dept\_ID** | **Salary** |
| XYZ | 1003 | 200 | 10000.12 |

Display the table **employee** & its schema.

Text

Description automatically generated

# Modify column size & rename column:-

Change the size of the field name as **varchar(40)**. Text

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* 1. Display the schema of table **employee.**

Text

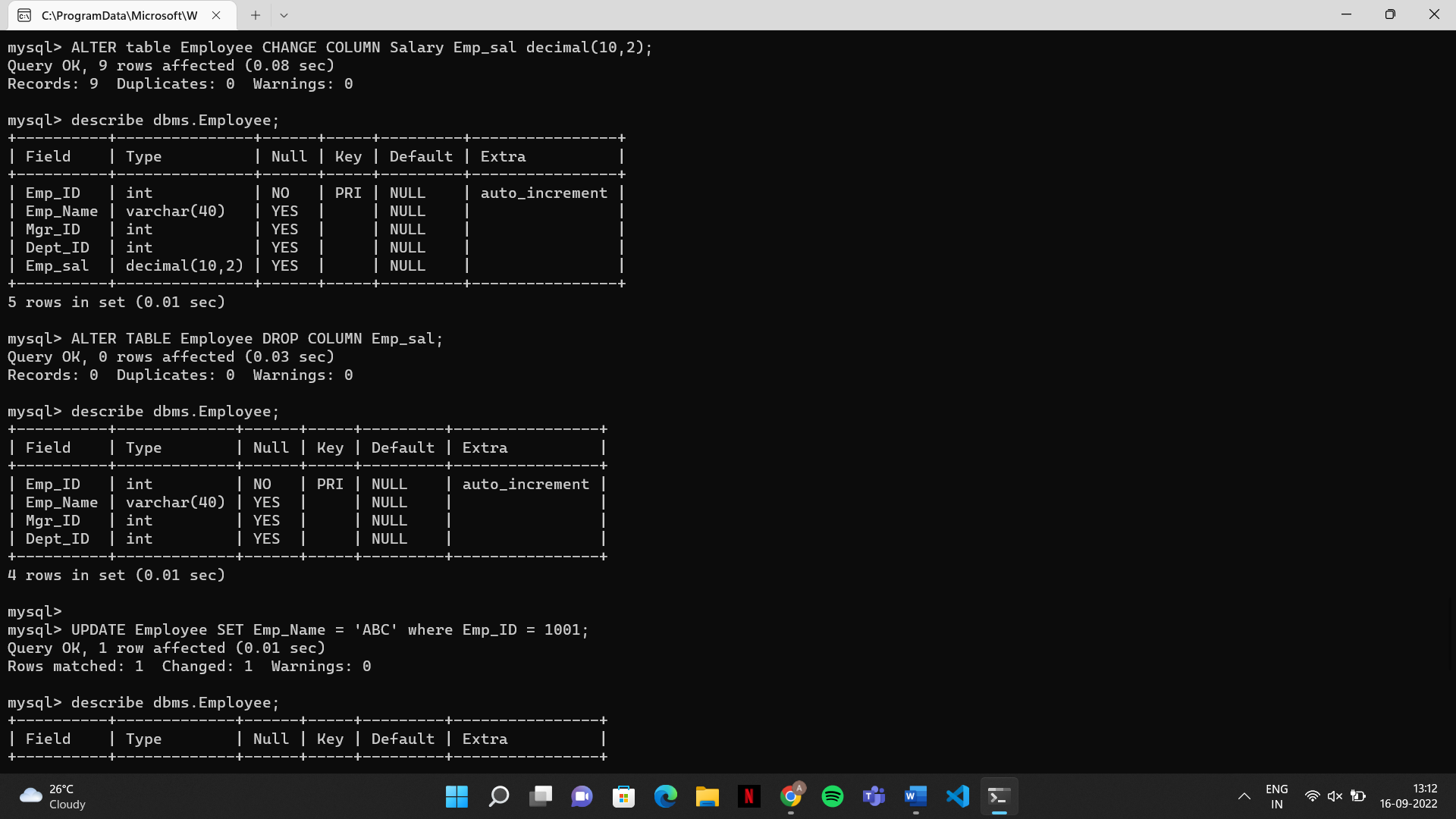
Description automatically generated

* 1. Rename column **salary** to **Emp\_sal decimal (10,2).**

Text

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* 1. Display the schema of table employee.



# Remove column from the table

* 1. Remove Emp\_sal field from table employee.

Text

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* 1. Display the schema of table employee.

Text

Description automatically generated

**Update Operation:-** Use employee table

1. Update name as “ABC” for emp\_id = 1001

Text

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1. Display the table employee

Text

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A screenshot of a computer

Description automatically generated with medium confidence

**Delete Operation:-** Use employee table

1. Delete data for emp\_id = 1002

A screenshot of a computer

Description automatically generated with medium confidence

1. Display the table employee

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Description automatically generated with medium confidence