**Lab Practice 6 – Database Systems (Altering Tables)**

**Roll No: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Practice Question 1**

Alter the **DEPT** table and add column in **Department\_location** in **DEPT** table

**See output below**

DEPT

|  |  |
| --- | --- |
| **ID** | **Name** |
| Length (7) Number | Length(25) varchar |

DEPT

|  |  |  |
| --- | --- | --- |
| **ID** | **Name** | **Department\_location** |
| Length (7) Number | Length(25) varchar | Length(30) varchar |

Answer

ALTER TABLE DEPT

ADD Department\_location NUMBER(30);

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Practice Question 2**

Alter the **EMP** table and add two columns **job\_id** and **salary** in **DEPT** table

**See output below**

**EMP Table Before Adding new Column**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Last\_Name** | **First\_Name** | **DEPT\_ID** |
| Length (7) Number | Length(25) varchar | Length(25) varchar | Length(7) number |

**After Alteration EMP Table**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **Last\_Name** | **First\_Name** | **DEPT\_ID** | **Job\_id** | **Salary** |
| Length (7) Number | Length(25) varchar | Length(25) varchar | Length(7) number | Length(20)  varchar | Length  Number(11) |

**Answer:**

ALTER TABLE EMP

ADD Job\_id Varchar(20);

ALTER TABLE EMP

ADD Salary Number(11);

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Practice Question 3**

Write Query to delete **Department\_location** coloumn from **DEPT** table.

**See output below**

Before Deletion

DEPT

|  |  |  |
| --- | --- | --- |
| **ID** | **Name** | **Department\_location** |
| Length (7) Number | Length(25) varchar | Length(30) varchar |

**After Deletion**

DEPT

|  |  |
| --- | --- |
| **ID** | **Name** |
| Length (7) Number | Length(25) varchar |

**Answer:**

**ALTER TABLE DEPT**

**DROP COLUMN** Department\_location**;**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Practice Question 4**

Write query to rename **DEPT** table to **New\_Departments** table

Before Rename

DEPT

|  |  |
| --- | --- |
| **ID** | **Name** |
| Length (7) Number | Length(25) varchar |

**After Rename**

New\_Departments

|  |  |
| --- | --- |
| **ID** | **Name** |
| Length (7) Number | Length(25) varchar |

**Answer:**

**RENAME DEPT TO New\_Departments;**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Practice Question 5**

Write Query to truncate all data from **EMP1** Table .

**Answer:**

**TRUNCATE TABLE EMP1t;**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Practice Question 6**

Write Query to delete table structure and all data.

**Answer:**

**DROP TABLE emp;**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Practice Question 7**

Write Query to Create the EMPLOYEES2 table based on the structure of the EMPLOYEES table.

**Include only the EMPLOYEE\_ID, FIRST\_NAME, LAST\_NAME, SALARY, and DEPARTMENT\_ID columns.**

Answer:

CREATE TABLE employees2 AS

SELECT employee\_id, first\_name, last\_name, salary,

department\_id

FROM employees;

**Practice Question 8**

Rename the **EMPLOYEES2** table as **EMP**.

Answer:

RENAME employees2 TO emp;

**Practice Question 9**

Add comments to the **DEPT** and **EMP** table definitions describing the tables.

\*Use describe to see the comments

Answer:

COMMENT ON TABLE Emp IS 'Employee Information';

COMMENT ON TABLE dept IS 'Department Information';

**Practice Question 10**

Drop the FIRST\_NAME column from the EMP table.

\*See table schema to confirm that column has been deleted.

Answer:

ALTER TABLE EMP

DROP COLUMN FIRST\_NAME;