**DBMS- Activity #2 (ALTER)**

**READ AND UNDERSTAND** the following SQL code which creates the database and the tables that you will use to solve this activity**.. THEN APPLY** the statements and start doing what you asked to do using **ALTER** Clouse:

Create database **alter\_DB**;

CREATE TABLE **employees** (

emp\_number INT ,

birth\_date varchar(25) ,

first\_name VARCHAR(25),

last\_name VARCHAR(25) ,

gender enum ('M','F') NOT NULL,

hire\_date DATE ,

salary double(5,2)

);

CREATE TABLE **departments** (

dept\_number CHAR(4) Primary Key,

dept\_name VARCHAR(40)

);

CREATE TABLE **dept\_emp** (

emp\_number INT NOT NULL,

dept\_number CHAR(4) NOT NULL,

from\_date DATE ,

PRIMARY KEY (emp\_number, dept\_number)

);

After creation, use **ALTER** Statement to do the following:

1. Add a primary key for **employees** table.

*insert your screenshot here…*

1. Add a Foreign keys for **dept\_emp** table with name you choose.

*insert your screenshot here…*

1. Add a check constraint on "**salary**" column to check if it is more than or equals 100.00 and less than or equals 900.0

*insert your screenshot here…*

1. Give the "**dept\_name**" column a unique constraint called "uc\_deptName" on departments table.

*insert your screenshot here…*

1. Execute the following statement then insert a screenshot of the result:

**Select \***

**from information\_schema.table\_constraints**

**where constraint\_schema = "alter\_DB"**

1. Drop the foreign keys of **dept\_emp** table.  
   *insert your screenshot here…*
2. Drop the primary key of **departments** table.   
   *insert your screenshot here…*
3. Drop the "**uc\_deptName**" constraint on departments table.   
   *insert your screenshot here…*
4. **AGINE**: Execute the following statement then insert a screenshot of the result:

**Select \***

**from information\_schema.table\_constraints**

**where constraint\_schema = "alter\_DB"**

1. Drop the column "**last\_name**" from employees table.  
   *insert your screenshot here…*
2. Alter the name of "**first\_name**" column to any name of your choice in employees table.  
   *insert your screenshot here…*
3. Add new column to departments table called "**to\_date**" which its datatype is **date** and with **not null** constraint.  
   *insert your screenshot here…*
4. Alter the previous column to have a **default** value = '0000-00-00'  
   *insert your screenshot here…*
5. Alter the datatype of "**gender**" column from to become char(1) in employees table. *insert your screenshot here…*
6. Change the name of **employees table** to become like your first name.

*insert your screenshot here…*

1. BONUS (سؤال إضافي بونص)

Alter the primary key of employees table to become Auto Increment column.

*insert your screenshot here…*

**Best wishes 😊**  
**Mrs. Samira Mawia Silmy**