**Prepare Lab Sheet of MYSQL Statements for following.**

1. Create a database named “Yourname\_Roll\_COMPANY” e.g.: Atiz\_02\_Company and then create following tables within the database. Specify proper primary keys and the needed constraints while defining the tables. Use appropriate data types for the attributes.
2. Employee (SSN, Ename, Gender, Bdate, Address, Salary, Ono, Years\_of\_experience); whereOno is a foreign key referencing to the Office table. Set default value of salary to 0.00. The Ename should not be null. Set SSN to auto increment. The Ename and address should be varchar, Gender should be char(1), Bdate should be date type, Salary should be decimal type with two digits after decimal.Years\_of\_experience should be integer. Use Check constraint for gender as CHECK (Gender  [IN](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/comparison-operators.html#function_in) (‘M’, ‘F’))
3. Office (Onumber, Oname, Country); where Oname should not be NULL. Country should be varchar.
4. Project (Pnumber, Pname, Plocation, Onumber); where Onumber is a foreign key referencing Office table. Create a constraint name fk\_pro for the foreign key. Pname should be unique and should not be null. Both Pname and Plocations should be of type varchar(40).
5. Works\_on( ESSN, Pno); where ESSN references Employee SSN and Pno references to Pnumber from Project . Set cascade on update and cascade on delete to both
6. Dependents(Did, Dname, Dage, SSN); where SSN is Foreign key referencing the employee. Set NULL on delete and on update to the foreign key. Add constraint age\_constraint using CHECK(Dage<16).
7. Alter table Dependent and modify the attribute Drelation of type Char(50) to Varchar(50)
8. Insert at least five tuples into the tables. (Illustrate insertion of single tuple and multiple tuples both). During insertion insert following as well.

There should be one record in the Employee table having Ename “Your name” i. e. Deric and SSN “Your roll number” e.g. 6.

There should be one record in the Project table having Pname =“Your name\_ProjMDS” and Pnumber = 2\*Your Roll number.

One of the tuple in Office table should have office name “Yourname\_Office\_Roll” i.e. Deric\_Office\_06. Similarly one of the tuple in employee should have salary 30000.

In addition, there should be one tuple in office table having office name Yourname\_Ncell\_Roll.

In the dependents table insert the rows with Dname and Drelation having values from your family. For example, Deric has his elder brother and mother as his dependents. So the table will have records with values Dname=Denish and Drelation=Brother and Dname=Gayatri and Drelation=Mother. Take assumptions based on your family members while inserting the values.

1. Update the name of office having office name “Yourname\_Ncell\_Roll” to “Yourname\_Ntc\_Roll”.
2. Delete those employee whose SSN is 1. {{{{Got null on Dependent SSN}}}}
3. Alter table Project to rename the attribute in Plcoation to Proj\_location
4. Select tuples from all of the tables individually.
5. Drop the table Works\_on. Make sure to export your database before you drop it so that you can recover.
6. Drop the constraint age\_constraint from dependent table
7. Drop the database COMPANY. Make sure to export your database before you drop it so that you can recover.

**Report Format: Your submission lab sheet report should have following structure:**

* **Question**
* **Solution query followed by the result.**
* **Each section in the lab report for above mentioned questions should include Question, SQL Query, and Result. In the questions containing update, delete and alter mention the results before the operation and after the operation.**

**Your submission file should be named Roll\_Name\_Lab1. Late submissions will not be entertained for evaluation.**