Practical Lab 1

```
1/ Create the database for students:
CREATE DATABASE DB_students;
CREATE DATABASE DB students; //DB students
CREATE DB Students; //DATABASE
2/ Displays all databases stored in the server
SHOW DATABASES;
  1 SHOW DATABASES;
  SCHEMATA (1×21)
 Database
  information_schema
  computer-db
 db_students
  dbstore
  dbtest
  education_db
  library
  my_db_1
3/ In the future, we will create tables inside DB students, so we to
USE DB students;
4/ Create new table for departments
create table departments (
      id_dept int primary key,
      name dept varchar (50)
);
5/ create new table for students
create table students (
      id student int primary key,
      name varchar(50),
      age int,
      address varchar(100),
      city varchar(30) default 'Afif',
      id department int
```

);

6/Display all tables in DB_students

show tables;

```
1 show tables;
2 |

TABLE_NAMES (1×2)

Tables_in_db_students
departments
students
```

7/ Describe table students

desc students;

```
1 desc students;
/ 🔳 COLUMNS (6×6)
Field
                                                       Default
                   Type
                                    Null
                                              Key
                                                                   Extra
id_student
                   int(11)
                                    NO
                                              PRI
                                                       (NULL)
name
                   varchar(50)
                                    YES
                                                       (NULL)
                   int(11)
                                    YES
                                                       (NULL)
age
                                                        (NULL)
address
                   varchar(100)
                                    YES
city
                   varchar(30)
                                    YES
                                                       Afif
                                                       (NULL)
                                    YES
id_department
                   int(11)
```

8/ add computer science department in the table department

```
insert into departments (id_dept, name_dept) values (1, 'Computer
Science');
```

```
insert into departments (id_dept, name_dept) values ('Computer
Science', -2);
```

```
insert into departments (id dept, name dept) values (1, 'Computer
Science'); // 1 primary key
insert-into-departments-(id dept, name dept)-values (2,-'Math',
'mathematical department');
9/ add Math and English department in the same SQL insert query
   ⇒ Solution: multiple insert
insert into departments (id_dept, name_dept)
values (2, 'Math'), (3, 'English');
10/ Prb:
insert into departments (name_dept)
values ('Science');
   ⇒ Solution: auto increment
create table departments (
      id dept int primary key auto increment,
      name dept varchar (50)
);
create table students (
      id_student int primary key auto_increment,
      name varchar (50),
      age int,
      address varchar(100),
      city varchar(30) default 'Afif',
      id department int
);
11/ Display the content of table department
select * from departments;
  1 select * from departments;
 departments (2×3)
    id_dept name_dept
          1 Computer Science
          2 Math
          3 English
```

```
11/ Remove the English department
delete from departments where id_dept = 3;

12/ Modify the name of Computer Science to Computer

update departments set name_dept = 'Computer' where id_dept = 1;

update table departments set name_dept = 'Computer' where id_dept = 1;

13/ delete all the content of the table department
delete from departments;
```