ASSIGNMENT-1

Abdullah Tahir Khurshid P19-0067

QUESTION-1:

```
-> from employees
-> where lower(last_name like "%a%" or last_name like "%e%" or last_name like "%i%" or last_name like "%o%" or last_
name like "%u%") limit 15;
 emp no | birth date | first name | last name | gender | hire date
  10001
           1953-09-02
                                       Facello
                                                              1986-06-26
                         Georgi
  10002
           1964-06-02
                         Bezalel
                                                              1985-11-21
                                       Simmel
  10003
           1959-12-03
                         Parto
                                       Bamford
                                                              1986-08-28
  10004
           1954-05-01
                         Chirstian
                                       Koblick
                                                              1986-12-01
  10005
           1955-01-21
                         Kyoichi
                                       Maliniak
                                                              1989-09-12
   10006
           1953-04-20
                         Anneke
                                       Preusig
                                                              1989-06-02
                                       Zielinski
  10007
           1957-05-23
                                                              1989-02-10
  10008
           1958-02-19
                         Saniya
                                       Kalloufi
                                                              1994-09-15
                                                              1985-02-18
1989-08-24
  10009
           1952-04-19
                         Sumant
                                       Peac
           1963-06-01
  10010
                         Duangkaew
                                       Piveteau
           1953-11-07
                         Mary
Patricio
                                                              1990-01-22
  10011
                                       Sluis
           1960-10-04
                                       Bridgland
Terkki
                                                    M
                                                              1992-12-18
  10012
                                                              1985-10-20
1987-03-11
  10013
           1963-06-07
                         Eberhardt
  10014
           1956-02-12
                         Berni
                                       Genin
                                                    M
           1959-08-19 | Guoxiang
  10015
                                       Nooteboom
                                                  I M
                                                              1987-07-02
15 rows in set (0.025 sec)
```

QUESTION-2:

QUESTION-3:

QUESTION-4:

QUESTION-5:

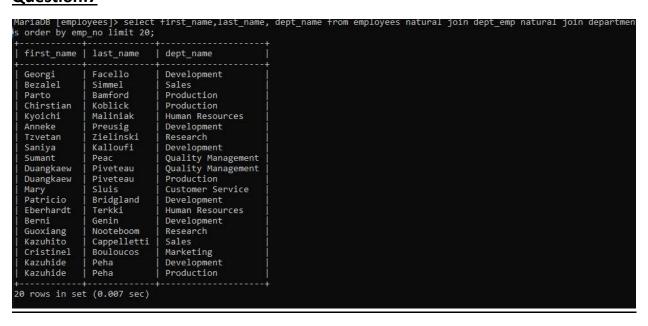
```
MariabB [employees]> SELECT EMP_NO , FIRST_NAME , LAST_NAME ,COUNT(DEPT_NO) FROM EMPLOYEES NATURAL JOIN DEPT_EMP GROUP
Y EMP_NO HAVING COUNT(DEPT_NO)>=2 LIMIT 10;
 EMP_NO | FIRST_NAME | LAST_NAME
                                          | COUNT(DEPT_NO)
  10010
           Duangkaew
                            Piveteau
   10018
           Kazuhide
                            Peha
  10029
           Otmar
                            Herbst
  10040
           Weiyi
                            Meriste
                            Dredge
Billingsley
   10050
           Yinghua
   10060
           Breannda
   10070
           Reuven
                            Garigliano
  10080
           Premal
                            Baek
                            Syrzycki
  10088
           Jungsoon
           Sreekrishna
  10098
                           Servieres
10 rows in set (0.001 sec)
```

QUESTION:6

```
MariaDB [employees]> select emp_no, first_name, last_name, salary from employees natural join salaries order by salary desc limit 1,2;

| emp_no | first_name | last_name | salary |
| 201777 | Wonhee | Perl | 110796 |
| 401801 | Subhash | Baek | 110589 |
| 2 rows in set (0.001 sec)
```

Question:7



QUESTION:8

```
MariaDB [employees]> select emp_no, first_name, last_name, salary from employees natural join salaries order by salary desc limit 2,1;

| emp_no | first_name | last_name | salary |

| 401801 | Subhash | Baek | 110589 |

1 row in set (0.002 sec)
```

QUESTION:9

```
MariaDB [employees]> select *from dept_emp where emp_no= "10023";

| emp_no | dept_no | from_date | to_date |
| 10023 | d005 | 1999-09-27 | 9999-01-01 |
| tow in set (0.001 sec)

MariaDB [employees]> delete from employees where emp_no= "10023";

Query OK, 1 row affected (0.190 sec)
```

QUESTION: 10

```
MariaDB [employees]> delete from employees where hire_date > '1999-12-31';
Query OK, 13 rows affected (0.690 sec)
```

QUESTION 11:

UPDATE TITLES SET TITLE="PROJECT MANAGER" WHERE EMP_NO=10068;

QUESTION: 12

```
Field | Type | Null | Key | Default | Extra |

dept_no | char(4) | NO | PRI | NULL | |

dept_name | varchar(40) | NO | UNI | NULL | |

rows in set (0.108 sec)
```

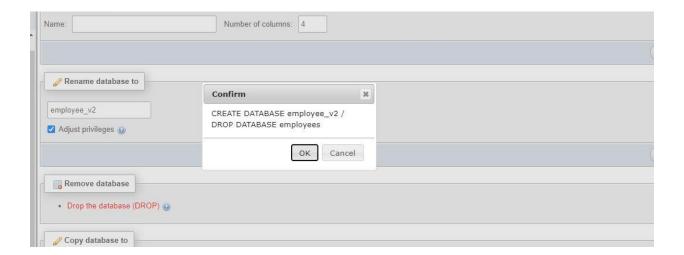
QUESTION 13:

```
MariaDB [employees]> alter table departments
-> modify column dept_name varchar(60) not null;
Query OK, 0 rows affected (0.146 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

QUESTION 14:

```
mariabb [empioyees]> snow cables;
 Tables_in_employees
 departments
 dept_emp
 dept manager
 employees
 salaries
 titles
 rows in set (0.001 sec)
MariaDB [employees]> ALTER TABLE titles RENAME TO job_description;
Query OK, 0 rows affected (0.123 sec)
MariaDB [employees]> show tables;
 Tables_in_employees
 departments
 dept_emp
 dept_manager
 employees
 job description
 salaries
```

QUESTION 15



```
MariaDB [(none)]> use employee_v2

Database changed

MariaDB [employee_v2]>
```

MariaDB [employee_v2]> drop database employee_v2; Query OK, 6 rows affected (2.283 sec)

QUESTION #2

<u>);</u>

```
CREATE DATABASE school_system;
USE school_system;
CREATE TABLE groups (
group id INT NOT NULL,
group_name VARCHAR(14) NOT NULL,
 PRIMARY KEY(group_id)
);
CREATE TABLE students (
 student_id INT NOT NULL,
first name VARCHAR(14) NOT NULL,
 last name VARCHAR(16) NOT NULL,
group_id INT NOT NULL,
 FOREIGN KEY (group_id) REFERENCES groups (group_id) ON DELETE
CASCADE,
 PRIMARY KEY (student_id)
```

```
CREATE TABLE subjects(
subject id INT NOT NULL,
 title VARCHAR(14) NOT NULL,
 PRIMARY KEY(subject_id)
);
CREATE TABLE marks(
 mark_id INT NOT NULL,
 student_id INT NOT NULL,
subject_id INT NOT NULL,
 date DATE
                NOT NULL,
 mark INT NOT NULL,
 FOREIGN KEY (student id) REFERENCES students (student id) ON DELETE
CASCADE,
 FOREIGN KEY (subject id) REFERENCES subjects (subject id) ON DELETE
CASCADE,
 PRIMARY KEY(mark_id)
);
CREATE TABLE teachers(
 teacher_id INT NOT NULL,
 first_name VARCHAR(16) NOT NULL,
 <u>last_name VARCHAR(16) NOT NULL,</u>
 PRIMARY KEY(teacher id)
```

```
CREATE TABLE subjectnteacher(

subject id INT NOT NULL,

teacher id INT NOT NULL,

group id INT NOT NULL,

FOREIGN KEY (subject id) REFERENCES subjects (subject id) ON DELETE

CASCADE,

FOREIGN KEY (teacher id) REFERENCES teachers (teacher id) ON DELETE

CASCADE,

FOREIGN KEY (group id) REFERENCES groups (group id) ON DELETE CASCADE);
```

```
MariaDB [(none)]> source C:\Users\abdul\Desktop\assign.sql
Query OK, 1 row affected (0.001 sec)

Database changed
Query OK, 0 rows affected (0.283 sec)

Query OK, 0 rows affected (0.425 sec)

Query OK, 0 rows affected (0.385 sec)

Query OK, 0 rows affected (0.232 sec)

Query OK, 0 rows affected (0.232 sec)
```