ASSIGNMENT-5

Q.1 Write a mysql statement to find the name, birth, department name, department block from the given tables.

```
mysql> create table emp (id tinyint primary key,
    -> name varchar(20) not null,
    -> dep_id tinyint not null,
    -> dob DATE not null);
Query OK, 0 rows affected (0.97 sec)

mysql> insert into emp values (1,'Maria Gloria',2,'1994-03-12'),(2,'John
Smith',1,'1993-02-07'),(3,'Gal Rao',4,'1992-09-11'),(4,'Jakey Smith',2,'1990-08-31'),(5,'Rama
Saho',1,'1994-12-09'),(6,'Maria Gaga',4,'1993-10-09');
Query OK, 6 rows affected (0.16 sec)
Records: 6  Duplicates: 0  Warnings: 0

mysql> select *from emp;
+----+--------------+--------+------------+
| id | name         | dep_id | dob        |
+----+--------------+--------+------------+
|  1 | Maria Gloria |      2 | 1994-03-12 |
|  2 | John Smith   |      1 | 1993-02-07 |
|  3 | Gal Rao      |      4 | 1992-09-11 |
|  4 | Jakey Smith  |      2 | 1990-08-31 |
|  5 | Rama Saho    |      1 | 1994-12-09 |
|  6 | Maria Gaga   |      4 | 1993-10-09 |
+----+--------------+--------+------------+
6 rows in set (0.00 sec)

mysql> create table info
    -> (dept_id tinyint not null unique,
    -> dept_name varchar(30),
    -> dept_block varchar(10));
Query OK, 0 rows affected (1.01 sec)

mysql> insert into info values (1,'Computer Science','B-Block'),(2,'Information
Technology','C-Block'),(3,'Mechanical','A-Block'),(4,'Electronic Communication','D-Block');
Query OK, 4 rows affected (0.08 sec)
Records: 4  Duplicates: 0  Warnings: 0
```

```
mysql> select*from info;
+---------+-------------------------+------------+
| dept_id | dept_name               | dept_block |
+---------+-------------------------+------------+
|       1 | Computer Science        | B-Block    |
|       2 | Information Technology  | C-Block    |
|       3 | Mechanical              | A-Block    |
|       4 | Electronic Communication | D-Block   |
+---------+-------------------------+------------+
4 rows in set (0.00 sec)

mysql> alter table emp add constraint users_fk foreign key (dept_id) reference emp2 (dept_id);
Query OK, 6 rows affected (2.01 sec)
Records: 6  Duplicates: 0  Warnings: 0

mysql> select emp.name,emp.birth,emp2.dept_name,emp2.dept_block
    -> from emp
    -> inner join
    -> emp2 on emp.dept_id=emp2.dept_id;
+--------------+------------+-------------------------+------------+
| name         | birth      | dept_name               | dept_block |
+--------------+------------+-------------------------+------------+
| John Smith   | 1993-02-07 | Computer Science        | B-Block    |
| Rama Saho    | 1994-12-09 | Computer Science        | B-Block    |
| Maria Gloria | 1994-03-12 | Information Technology  | C-Block    |
| Jakey Smith  | 1990-08-31 | Information Technology  | C-Block    |
| Gal Rao      | 1992-09-11 | Electronic Communication | D-Block   |
| Maria Gaga   | 1993-10-09 | Electronic Communication | D-Block   |
+--------------+------------+-------------------------+------------+
6 rows in set (0.00 sec)
```

Q.2 Write a mysql statement to get the names of students containing exactly five characters with ‘a’ as the last letter.

```
mysql> select *from student;
+----+-------+---------+------------+
| id | name  | dept_id | birth      |
+----+-------+---------+------------+
|  1 | Maria |       2 | 1994-03-12 |
|  2 | John  |       1 | 1993-02-07 |
|  3 | Gal   |       4 | 1992-09-11 |
|  4 | Jakey |       2 | 1990-08-31 |
|  5 | Rama  |       1 | 1994-12-09 |
|  6 | Maria |       4 | 1993-10-09 |
+----+-------+---------+------------+
6 rows in set (0.00 sec)

mysql> select name from student where name like '____a';
+-------+
| name  |
+-------+
| Maria |
| Maria |
+-------+
```

Q.3 Write a mysql statement to determine the age of each of the students.
Suppose the table is -

```
mysql> Select datediff(now(),student2.birth) as age from student2;
+-------+
| age   |
+-------+
| 10968 |
| 11366 |
| 11515 |
| 12257 |
| 10696 |
| 11122 |
+-------+
6 rows in set (0.00 sec)

mysql> create table age select datediff(now(),student2.birth) as age from student2;
Query OK, 6 rows affected (0.43 sec)
Records: 6  Duplicates: 0  Warnings: 0
```

```
mysql> select * from age;
+-------+
| age   |
+-------+
| 10968 |
| 11366 |
| 11515 |
| 12257 |
| 10696 |
| 11122 |
+-------+
6 rows in set (0.01 sec)

mysql> update age set age = age/365;
Query OK, 6 rows affected (0.08 sec)
Rows matched: 6  Changed: 6  Warnings: 0

mysql> select * from age;
+------+
| age  |
+------+
|   30 |
|   31 |
|   32 |
|   34 |
|   29 |
|   30 |
+------+
6 rows in set (0.00 sec)

mysql> select format((datediff(sysdate(),birth)/365),0) from student2;
+-----------------------------------------+
| format((datediff(sysdate(),birth)/365),0) |
+-----------------------------------------+
| 30                                      |
| 31                                      |
| 32                                      |
| 34                                      |
| 29                                      |
| 30                                      |
+-----------------------------------------+
6 rows in set (0.00 sec)
```

```
mysql> select format((datediff(sysdate(),birth)/365),0) as age from student2;
+------+
| age  |
+------+
| 30   |
| 31   |
| 32   |
| 34   |
| 29   |
| 30   |
+------+
6 rows in set (0.00 sec)
```

Q.4 These questions are based on the following two tables, Employee table and Reward table.

1. Get all employees.

```
mysql> select * from employee;
+--------+------------+-----------+---------+--------------+------------+
| emp_id | first_name | last_name | salary  | joining_date | department |
+--------+------------+-----------+---------+--------------+------------+
|      1 | Bob        | Kinto     | 1000000 | 2019-01-20   | Finance    |
|      2 | Jerry      | Kansxo    | 6000000 | 2019-01-15   | IT         |
|      3 | Philip     | Jose      | 8900000 | 2019-02-05   | Banking    |
|      4 | John       | Abraham   | 2000000 | 2019-02-25   | Insurance  |
|      5 | Micheal    | Mathew    | 2200000 | 2019-02-28   | Finance    |
|      6 | Alex       | Chreketo  | 4000000 | 2019-05-10   | IT         |
|      7 | Yohan      | Soso      | 1230000 | 2019-06-20   | Banking    |
+--------+------------+-----------+---------+--------------+------------+
7 rows in set (0.00 sec)
```

2. Display the first name and last name of all employees.

```
mysql>  select first_name, last_name from employee;
+------------+-----------+
| first_name | last_name |
+------------+-----------+
| Bob        | Kinto  |
| Jerry      | Kansxo    |
| Philip | Jose  |
| John       | Abraham   |
| Micheal    | Mathew    |
| Alex       | Chreketo  |
| Yohan      | Soso      |
+------------+-----------+
7 rows in set (0.00 sec)
```

3. Display all the values of the “First_Name” column using the alias “Employee Name”

```
mysql> select first_name as 'Employee Name' from employee;
+---------------+
| Employee Name |
+---------------+
| Bob           |
| Jerry         |
| Philip        |
| John          |
| Micheal       |
| Alex          |
| Yohan         |
+---------------+
7 rows in set (0.00 sec)
```

4. Get all “Last_Name” in lowercase.

```
mysql> select lower(last_name) from employee;
+------------------+
| lower(last_name) |
+------------------+
| kinto            |
| kansxo           |
| jose             |
| abraham          |
| mathew           |
| chreketo         |
| soso             |
+------------------+
7 rows in set (0.00 sec)
```

5. Get all “Last_Name” in uppercase.

```
mysql> select upper(last_name) from employee;
+------------------+
| upper(last_name) |
+------------------+
| KINTO            |
| KANSXO           |
| JOSE             |
| ABRAHAM          |
| MATHEW           |
| CHREKETO         |
| SOSO             |
+------------------+
7 rows in set (0.00 sec)
```

6. Get a unique “DEPARTMENT”.

```
mysql> select distinct(department) from employee;
+------------+
| department |
+------------+
| Finance    |
| IT         |
| Banking    |
| Insurance  |
+------------+
4 rows in set (0.00 sec)
```

7. Get the first 4 characters of “FIRST_NAME” column.

```
 mysql> select substring(first_name,1,4) from employee;
+--------------------------+
| substring(first_name,1,4) |
+--------------------------+
| Bob                      |
| Jerr                     |
| Phil                     |
| John                     |
| Mich                     |
| Alex                     |
| Yoha                     |
+--------------------------+
```

8. Get the position of the letter ‘h’ in ‘John’.

```
mysql> select 'john',position('h' in 'john') as position_h from employee;
+------+------------+
| john | position_h |
+------+------------+
| john |          3 |
| john |          3 |
| john |          3 |
| john |          3 |
| john |          3 |
| john |          3 |
| john |          3 |
+------+------------+
```

9. Get all values from the “FIRST_NAME” column after removing white space on the right.

```
mysql> select first_name, rtrim(first_name) as RTRIM_first_name from employee;
+------------+------------------+
| first_name | RTRIM_first_name |
+------------+------------------+
| Bob        | Bob              |
| Jerry      | Jerry            |
| Philip | Philip           |
| John       | John             |
| Micheal    | Micheal          |
| Alex       | Alex             |
| Yohan      | Yohan            |
+------------+------------------+
```

10. Get all values from the “FIRST_NAME” column after removing white space on the left.

```
mysql> select first_name, ltrim(first_name) as LTRIM_first_name from employee;
+------------+-----------------+
| first_name | LTRIM_first_name |
+------------+-----------------+
| Bob        | Bob             |
| Jerry      | Jerry           |
| Philip | Philip          |
| John       | John            |
| Micheal    | Micheal         |
| Alex       | Alex            |
| Yohan      | Yohan           |
+------------+-----------------+
```

11. Write the syntax to create the “employee” table.

```
mysql> create table employee
    -> (emp_id int not null primary key,
    -> first_name varchar(20),
    -> last_name varchar(20),
    -> salary int,
    -> joining_date date,
    -> department varchar(20));
Query OK, 0 rows affected (0.51 sec)


mysql> insert into employee values
    -> (1, 'Bob', 'Kinto', 1000000, '2019-01-20', 'Finance'),
    -> (2, 'Jerry', 'Kansxo', 6000000, '2019-01-15', 'IT'),
    -> (3, 'Philip', 'Jose', 8900000, '2019-02-05', 'Banking'),
    -> (4, 'John', 'Abraham', 2000000, '2019-02-25', 'Insurance'),
    -> (5, 'Micheal', 'Mathew', 2200000, '2019-02-28', 'Finance'),
    -> (6, 'Alex', 'Chreketo', 4000000, '2019-05-10', 'IT'),
    -> (7, 'Yohan', 'Soso', 1230000, '2019-06-20', 'Banking');
Query OK, 7 rows affected (0.08 sec)
Records: 7  Duplicates: 0  Warnings: 0
```