Relational Databases with MySQL Week 7 Coding Assignment

Points possible: 70

Category	Criteria	% of Grade
Functionality	Does the code work?	25
Organization	Is the code clean and organized? Proper use of white space, syntax, and consistency are utilized. Names and comments are concise and clear.	25
Creativity	Student solved the problems presented in the assignment using creativity and out of the box thinking.	25
Completeness	All requirements of the assignment are complete.	25

Instructions: Using a text editor of your choice, write the queries that accomplishes the objectives listed below. Take screenshots of the queries and results and paste them in this document where instructed below. Create a new repository on GitHub for this week's assignments and push this document to the repository. Additionally, push an .sql file with all your queries to the same repository. Add the URL for this week's repository to this document where instructed and submit this document to your instructor when complete.

Coding Steps:

Using the employees database you installed, write SQL queries that do the following (the SQL queries you write are what you will turn in for your homework):

1. Show all employees who were born before 1965-01-01

SELECT * FROM employees WHERE birth_date < '1965-01-01';

2. Show all employees who are female and were hired after 1990

SELECT * FROM employees WHERE gender = 'F' AND hire_date > '2010';

3. Show the first and last name of the first 50 employees whose last name starts with F

SELECT first_name, last_name FROM employees WHERE last_name LIKE 'f%' LIMIT 50;

4. Insert 3 new employees into the employees table. There emp_no should be 100, 101, and 102. You can choose the rest of the data.

INSERT INTO employees VALUES (100, '1990-01-01', 'b', 'c', 'M', '2018-01-01') , (101, '1991-01-01', 'g', 'h', 'F', '2019-01-01'), (102, '1992-01-01', 'l', 'm', 'M', '2020-01-01');

5. Change the employee's first name to Bob for the employee with the emp_no of 10023.

UPDATE employees SET first_name = 'Bob' WHERE emp_no = 10023;

6. Change all employees hire dates to 2002-01-01 whose first or last names start with P.

UPDATE employees SET hire_date = '2002-01-01' WHERE first_name LIKE '%P' OR last_name LIKE '&P';

7. Delete all employees who have an emp_no less than 10000

DELETE FROM employees WHERE emp_no < 10000;

8. Delete all employee who have an emp_no of 10048, 10099, 10234, and 20089.

DELETE FROM employees WHERE emp_no = 10048;

SELECT * FROM employees WHERE emp_no = 10048;

DELETE FROM employees WHERE emp_no = 10099;

SELECT * FROM employees WHERE emp_no = 10099;

DELETE FROM employees WHERE emp_no = 10234;

SELECT * FROM employees WHERE emp_no = 10234;

DELETE FROM employees WHERE emp_no = 20089;

SELECT * FROM employees WHERE emp_no = 20089;

Screenshots of Queries:

1:

mysql> SELECT * FROM employees WHERE birth_date < '1965-01-01';

2:

```
90027 rows in set (mysql> SELECT * FROM employees WHERE gender ='F' AND hire_date > '1990-01-01';
+---------+------------+-------------------+-------------------+--------+------------+
```

3:

```
mysql> SELECT * FROM employees WHERE last_name LIKE 'f%' LIMIT 50;
+---------+------------+-------------------+-------------------+--------+------------+
```

4:

```
mysql> INSERT INTO employees VALUES (100,'a','b','c','d','e'),(101,'f','g','h','i','j'),(102,'k','l','m','n','o');
ERROR 1292 (22007): Incorrect date value: 'a' for column 'birth_date' at row 1
mysql> INSERT INTO employees VALUES (100,'1990-01-01','b','c','M','2018-01-01'),(101,'1991-01-01','g','h','F','2019-01-01'),(
102,'1992-01-01','l','m','F','2020-01-01');
Query OK, 3 rows affected (0.02 sec)
Records: 3  Duplicates: 0  Warnings: 0
```

5:

```
mysql> UPDATE employees SET first_name = 'Bob' WHERE emp_no = 10023;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

6:

```
mysql> UPDATE employees SET hire_date = '2002-01-01' WHERE first_name LIKE '%P' OR last_name LIKE '&P';

Query OK, 2651 rows affected (0.27 sec)
Rows matched: 2651  Changed: 2651  Warnings: 0
```

7:

```
mysql> DELETE FROM employees WHERE emp_no < 10000;
Query OK, 3 rows affected (0.01 sec)
```

8:

```
mysql> DELETE FROM employees WHERE emp_no  = 10048;
Query OK, 1 row affected (0.01 sec)
```

```
mysql> DELETE FROM employees WHERE emp_no  = 10099;
Query OK, 1 row affected (0.01 sec)
```

```
mysql> DELETE FROM employees WHERE emp_no  = 10234;
Query OK, 1 row affected (0.01 sec)
```

```
mysql> DELETE FROM employees WHERE emp_no  = 20089;
Query OK, 1 row affected (0.01 sec)
```

Screenshots of Query Results (only include the last 20 rows):

1:

emp_no	birth_date	first_name	last_name	gender	hire_date
10001	1953-09-02	Georgi	Facello	M	1986-06-26
10002	1964-06-02	Bezalel	Simmel	F	1985-11-21
10003	1959-12-03	Parto	Bamford	M	1986-08-28
10004	1954-05-01	Chirstian	Koblick	M	1986-12-01
10005	1955-01-21	Kyoichi	Maliniak	M	1989-09-12
10006	1953-04-20	Anneke	Preusig	F	1989-06-02
10007	1957-05-23	Tzvetan	Zielinski	F	1989-02-10
10008	1958-02-19	Saniya	Kalloufi	M	1994-09-15
10009	1952-04-19	Sumant	Peac	F	1985-02-18

2:

emp_no	birth_date	first_name	last_name	gender	hire_date
101	1991-01-01	g	h	F	2019-01-01
102	1992-01-01	l	m	F	2020-01-01
10011	1953-11-07	Mary	Sluis	F	1990-01-22
10017	1958-07-06	Cristinel	Bouloucos	F	1993-08-03
10024	1958-09-05	Suzette	Pettey	F	1997-05-19
10032	1960-08-09	Jeong	Reistad	F	1990-06-20
10040	1959-09-13	Weiyi	Meriste	F	1993-02-14
10042	1956-02-26	Magy	Stamatiou	F	1993-03-21
10044	1961-09-21	Mingsen	Casley	F	1994-05-21

3:

```
| 10220 | 1958-05-25 | Kish         | Fasbender     | F | 1992-06-25 |
| 10244 | 1961-10-24 | Foong        | Flasterstein  | M | 1985-12-23 |
| 10327 | 1954-04-01 | Roded        | Facello       | M | 1987-09-18 |
| 10370 | 1957-08-03 | Clyde        | Fandrianto    | M | 1992-04-04 |
| 10372 | 1952-04-08 | Anneli       | Frijda        | F | 1985-07-30 |
| 10412 | 1958-02-26 | Masoud       | Fabrizio      | F | 1986-05-06 |
| 10538 | 1955-08-18 | Przemyslawa  | Falby         | M | 1987-07-23 |
| 10558 | 1964-10-08 | Hisao        | Famili        | M | 1990-04-06 |
| 10629 | 1954-03-23 | Lalit        | Francisci     | F | 1986-01-30 |
| 10637 | 1954-07-11 | Heejo        | Frolund       | M | 1993-07-11 |
| 10653 | 1953-06-16 | Otmar        | Feinberg      | M | 1987-04-30 |
| 10696 | 1952-03-23 | Unal         | Fendler       | M | 1991-09-09 |
| 10748 | 1964-04-12 | Yuchang      | Francisci     | F | 1990-08-14 |
| 10754 | 1956-09-08 | Chenyi       | Feinberg      | M | 1988-01-11 |
| 10809 | 1962-01-06 | Shim         | Feldhoffer    | F | 1987-03-04 |
| 10811 | 1954-06-29 | Ashish       | Fortenbacher  | M | 1997-07-08 |
| 10825 | 1958-03-27 | Fan          | Fairtlough    | M | 1985-12-30 |
| 10830 | 1954-08-17 | Fen          | Fiebach       | M | 1991-08-24 |
| 10890 | 1963-04-13 | Ramzi        | Furudate      | M | 1988-04-21 |
| 10912 | 1952-07-27 | Oscal        | Fasbender     | M | 1986-04-23 |
| 10935 | 1961-08-09 | Morris       | Famili        | M | 1990-03-09 |
| 10940 | 1953-01-07 | Aleksander   | Fioravanti    | F | 1994-12-02 |
| 10985 | 1952-05-31 | Chiradeep    | Furedi        | F | 1990-12-10 |
| 10990 | 1954-10-22 | Shin         | Foote         | M | 1988-07-06 |
| 11082 | 1962-07-26 | Deniz        | Fontan        | M | 1992-12-01 |
| 11095 | 1961-12-31 | Nathan       | Flowers       | M | 1994-05-28 |
| 11114 | 1955-09-08 | Tse          | Felcyn        | M | 1989-10-14 |
| 11197 | 1955-05-11 | Tadahiro     | Fordan        | M | 1986-04-13 |
| 11220 | 1962-06-25 | Sahrah       | Figueira      | F | 1989-11-24 |
| 11227 | 1956-01-31 | Dayanand     | Figueira      | M | 1985-03-08 |
| 11263 | 1961-09-09 | Kwangjo      | Fiebach       | M | 1989-08-15 |
| 11270 | 1962-10-10 | Gina         | Falster       | M | 1988-09-28 |
| 11284 | 1961-03-25 | Bernice      | Felcyn        | M | 1985-04-25 |
| 11287 | 1963-08-16 | Sreenivas    | Farrag        | M | 1987-08-12 |
| 11300 | 1952-12-14 | Lillian      | Fontet        | M | 1992-09-10 |
| 11316 | 1963-11-02 | Ult          | Farrar        | F | 1997-07-18 |
| 11321 | 1959-06-25 | Heping       | Fontan        | M | 1995-03-18 |
| 11328 | 1958-10-13 | Xiong        | Ferriere      | M | 1986-08-08 |
| 11331 | 1959-10-15 | Kasturi      | Fraisse       | F | 1987-03-03 |
+-------+------------+--------------+---------------+---+------------+
50 rows in set (0.00 sec)
```

4:

```
+--------+------------+------------+-----------+--------+------------+
| emp_no | birth_date | first_name | last_name | gender | hire_date  |
+--------+------------+------------+-----------+--------+------------+
|    100 | 1990-01-01 | b          | c         | M      | 2018-01-01 |
|    101 | 1991-01-01 | g          | h         | F      | 2019-01-01 |
|    102 | 1992-01-01 | l          | m         | F      | 2020-01-01 |
+--------+------------+------------+-----------+--------+------------+
3 rows in set (0.00 sec)
```

5:

```
| 10022 | 1952-07-08 | Shahaf   | Famili     | M | 1995-08-22 |
| 10023 | 1953-09-29 | Bob      | Montemayor | F | 1989-12-17 |
| 10024 | 1958-09-05 | Suzette  | Pettey     | F | 1997-05-19 |
```

7:

```
+--------+------------+------------+------------+--------+------------+
| emp_no | birth_date | first_name | last_name  | gender | hire_date  |
+--------+------------+------------+------------+--------+------------+
|  10001 | 1953-09-02 | Georgi     | Facello    | M      | 1986-06-26 |
|  10002 | 1964-06-02 | Bezalel    | Simmel     | F      | 1985-11-21 |
|  10003 | 1959-12-03 | Parto      | Bamford    | M      | 1986-08-28 |
|  10004 | 1954-05-01 | Chirstian  | Koblick    | M      | 1986-12-01 |
|  10005 | 1955-01-21 | Kyoichi    | Maliniak   | M      | 1989-09-12 |
|  10006 | 1953-04-20 | Anneke     | Preusig    | F      | 1989-06-02 |
|  10007 | 1957-05-23 | Tzvetan    | Zielinski  | F      | 1989-02-10 |
```

8:

```
mysql> SELECT * FROM employees WHERE emp_no  = 10048;
Empty set (0.00 sec)
```

```
mysql> SELECT * FROM employees WHERE emp_no  = 10099;
Empty set (0.00 sec)
```

```
mysql> SELECT * FROM employees WHERE emp_no  = 10234;
Empty set (0.00 sec)
```

```
mysql> SELECT * FROM employees WHERE emp_no  = 20089;
Empty set (0.00 sec)
```

URL to GitHub Repository:

https://github.com/robertspwork/Week-7-Codinng-Assignment.git