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

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

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

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.

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

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

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

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

Screenshots of Queries:

Question 1:

```
C:\Users\cburt>mysql -u root -p
Enter password: ********
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 36
Server version: 8.0.29 MySQL Community Server - GPL

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use employees;
Database changed
mysql> SELECT * FROM employees WHERE birth_date < '1965-01-01';
```

Question 2:

```
mysql> SELECT * FROM employees WHERE gender = 'F' AND hire_date >= '1991-01-01';
```

Question 3:

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

Question 4:

```
mysql> INSERT INTO employees VALUES(100, '1982-08-08', 'Gerald', 'Pete', 'M', '2011-09-08'),
    -> (101, '1977-06-07', 'Kevin', 'Hannah', 'M', '2005-05-06'),
    -> (102, '2000-01-01', 'Taylor', 'Harris', 'F', '2022-03-15');
Query OK, 3 rows affected (0.02 sec)
Records: 3  Duplicates: 0  Warnings: 0
```

Question 5:

```
mysql> SELECT * FROM employees WHERE emp_no= 10023;
+--------+------------+------------+------------+--------+------------+
| emp_no | birth_date | first_name | last_name  | gender | hire_date  |
+--------+------------+------------+------------+--------+------------+
|  10023 | 1953-09-29 | Bojan      | Montemayor | F      | 1989-12-17 |
+--------+------------+------------+------------+--------+------------+
1 row in set (0.00 sec)
```

```
mysql> UPDATE employees SET first_name = 'Bob' WHERE emp_no= 10023;
Query OK, 1 row affected (0.02 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

Question 6:

```
mysql> UPDATE employees SET hire_date = '2002-01-01' WHERE first_name LIKE 'p%' OR last_name LIKE 'p%';
Query OK, 31566 rows affected (1.69 sec)
Rows matched: 31566  Changed: 31566  Warnings: 0
```

Question 7:

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

mysql>
```

Question 8:

```
mysql> SELECT * FROM employees WHERE emp_no IN (10048, 10099, 10234, 20089);
+--------+------------+-------------+-----------+--------+------------+
| emp_no | birth_date | first_name  | last_name | gender | hire_date  |
+--------+------------+-------------+-----------+--------+------------+
|  10048 | 1963-07-11 | Florian     | Syrotiuk  | M      | 1985-02-24 |
|  10099 | 1956-05-25 | Valter      | Sullins   | F      | 1988-10-18 |
|  10234 | 1961-01-18 | Arunachalam | Bakhtari  | M      | 1990-11-19 |
|  20089 | 1953-11-29 | Unal        | Merli     | M      | 1991-12-14 |
+--------+------------+-------------+-----------+--------+------------+
4 rows in set (0.00 sec)
```

```
mysql> DELETE FROM employees WHERE emp_no IN (10048, 10099, 10234, 20089);
Query OK, 4 rows affected (0.02 sec)
```

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

Question 1:

```
| 499980 | 1959-06-28 | Gino       | Usery        | M |  1991-02-11 |
| 499981 | 1955-01-02 | Yunming    | Mitina       | F |  1991-03-07 |
| 499982 | 1954-08-25 | Mohammed   | Pleszkun     | M |  1986-02-21 |
| 499983 | 1955-08-29 | Uri        | Juneja       | F |  1989-08-28 |
| 499984 | 1959-08-31 | Kaijung    | Rodham       | M |  1985-09-11 |
| 499985 | 1964-12-26 | Gila       | Lukaszewicz  | M |  1997-02-11 |
| 499986 | 1952-07-22 | Nathan     | Ranta        | F |  1985-08-11 |
| 499987 | 1961-09-05 | Rimli      | Dusink       | F |  1998-09-20 |
| 499988 | 1962-09-28 | Bangqing   | Kleiser      | F |  1986-06-06 |
| 499989 | 1954-05-26 | Keiichiro  | Lindqvist    | M |  1993-10-28 |
| 499990 | 1963-11-03 | Khaled     | Kohling      | M |  1985-10-10 |
| 499991 | 1962-02-26 | Pohua      | Sichman      | F |  1989-01-12 |
| 499992 | 1960-10-12 | Siamak     | Salverda     | F |  1987-05-10 |
| 499993 | 1963-06-04 | DeForest   | Mullainathan | M |  1997-04-07 |
| 499994 | 1952-02-26 | Navin      | Argence      | F |  1990-04-24 |
| 499995 | 1958-09-24 | Dekang     | Lichtner     | F |  1993-01-12 |
| 499996 | 1953-03-07 | Zito       | Baaz         | M |  1990-09-27 |
| 499997 | 1961-08-03 | Berhard    | Lenart       | M |  1986-04-21 |
| 499998 | 1956-09-05 | Patricia   | Breugel      | M |  1993-10-13 |
| 499999 | 1958-05-01 | Sachin     | Tsukuda      | M |  1997-11-30 |
+--------+------------+------------+--------------+---+-------------+
298076 rows in set (0.64 sec)
```

Question 2:

```
| 499861 | 1959-11-18 | Subhash      | Barriga      | F | 1998-02-15 |
| 499871 | 1958-11-13 | Elrique      | Walstra      | F | 1993-07-05 |
| 499875 | 1961-01-11 | Chenyi       | Hainaut      | F | 1991-07-16 |
| 499885 | 1963-09-21 | Jagoda       | Lanphier     | F | 1997-05-09 |
| 499902 | 1952-07-31 | Aloke        | Wuwongse     | F | 1991-06-18 |
| 499910 | 1957-11-07 | Doowon       | Versino      | F | 1991-12-22 |
| 499912 | 1956-06-19 | Parke        | Pell         | F | 1993-10-23 |
| 499916 | 1962-01-09 | Florina      | Cusworth     | F | 1997-05-18 |
| 499923 | 1964-12-21 | Sergi        | Melton       | F | 1993-04-08 |
| 499933 | 1957-10-21 | Chuanti      | Riesenhuber  | F | 1993-05-28 |
| 499934 | 1957-02-19 | Tonia        | Butner       | F | 1991-01-02 |
| 499938 | 1960-06-30 | JiYoung      | Binding      | F | 1993-04-18 |
| 499941 | 1956-10-16 | Udaiprakash  | Hockney      | F | 1994-02-04 |
| 499942 | 1963-01-10 | Feiyu        | Sanella      | F | 1997-02-10 |
| 499950 | 1964-07-15 | Weidon       | Gente        | F | 1991-06-05 |
| 499956 | 1959-01-08 | Zhonghua     | Crooks       | F | 1994-10-12 |
| 499977 | 1956-06-05 | Martial      | Weisert      | F | 1996-09-17 |
| 499981 | 1955-01-02 | Yunming      | Mitina       | F | 1991-03-07 |
| 499987 | 1961-09-05 | Rimli        | Dusink       | F | 1998-09-20 |
| 499995 | 1958-09-24 | Dekang       | Lichtner     | F | 1993-01-12 |
+--------+------------+--------------+--------------+---+------------+
43639 rows in set (0.41 sec)
```

Question 3:

```
+--------+------------+-------------+--------------+--------+------------+
| emp_no | birth_date | first_name  | last_name    | gender | hire_date  |
+--------+------------+-------------+--------------+--------+------------+
|  10022 | 1952-07-08 | Shahaf      | Famili       | M      | 1995-08-22 |
|  10086 | 1962-11-19 | Somnath     | Foote        | M      | 1990-02-16 |
|  10089 | 1963-03-21 | Sudharsan   | Flasterstein | F      | 1986-08-12 |
|  10120 | 1960-03-26 | Armond      | Fairtlough   | F      | 1996-07-06 |
|  10139 | 1963-03-03 | Ewing       | Foong        | F      | 1998-03-15 |
|  10156 | 1964-09-19 | Sumali      | Fargier      | M      | 1985-03-10 |
|  10174 | 1959-05-15 | Badri       | Furudate     | M      | 1987-06-01 |
|  10190 | 1964-12-11 | Arve        | Fairtlough   | F      | 1986-06-23 |
|  10192 | 1960-09-16 | Mohua       | Falck        | M      | 1988-06-13 |
|  10198 | 1953-05-28 | Pranav      | Furedi       | M      | 1985-08-31 |
|  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 |
|  11346 | 1962-04-25 | Jungsoon  | Fiebach      | M |  1988-10-27 |
+--------+------------+-----------+--------------+---+-------------+
50 rows in set (0.01 sec)
```

Question 4:

```
mysql> SELECT * FROM employees LIMIT 15;
+--------+------------+------------+------------+--------+-------------+
| emp_no | birth_date | first_name | last_name  | gender | hire_date   |
+--------+------------+------------+------------+--------+-------------+
|    100 | 1982-08-08 | Gerald     | Pete       | M      | 2011-09-08  |
|    101 | 1977-06-07 | Kevin      | Hannah     | M      | 2005-05-06  |
|    102 | 2000-01-01 | Taylor     | Harris     | F      | 2022-03-15  |
|  10008 | 1958-02-19 | Saniya     | Kalloufi   | M      | 1994-09-15  |
|  10009 | 1952-04-19 | Sumant     | Peac       | F      | 1985-02-18  |
|  10010 | 1963-06-01 | Duangkaew  | Piveteau   | F      | 1989-08-24  |
|  10011 | 1953-11-07 | Mary       | Sluis      | F      | 1990-01-22  |
|  10012 | 1960-10-04 | Patricio   | Bridgland  | M      | 1992-12-18  |
|  10013 | 1963-06-07 | Eberhardt  | Terkki     | M      | 1985-10-20  |
|  10015 | 1959-08-19 | Guoxiang   | Nooteboom  | M      | 1987-07-02  |
|  10016 | 1961-05-02 | Kazuhito   | Cappelletti| M      | 1995-01-27  |
|  10017 | 1958-07-06 | Cristinel  | Bouloucos  | F      | 1993-08-03  |
|  10018 | 1954-06-19 | Kazuhide   | Peha       | F      | 1987-04-03  |
|  10019 | 1953-01-23 | Lillian    | Haddadi    | M      | 1999-04-30  |
|  10020 | 1952-12-24 | Mayuko     | Warwick    | M      | 1991-01-26  |
+--------+------------+------------+------------+--------+-------------+
15 rows in set (0.00 sec)
```

Question 5:

```
mysql> SELECT * FROM employees WHERE emp_no= 10023;
+--------+------------+------------+------------+--------+-------------+
| emp_no | birth_date | first_name | last_name  | gender | hire_date   |
+--------+------------+------------+------------+--------+-------------+
|  10023 | 1953-09-29 | Bob        | Montemayor | F      | 1989-12-17  |
+--------+------------+------------+------------+--------+-------------+
1 row in set (0.00 sec)
```

Question 6:

```
| 499801 | 1959-01-19 | Sverrir    | Pelc          | F | 2002-01-01 |
| 499808 | 1955-04-05 | Paris      | Deyuan        | F | 2002-01-01 |
| 499817 | 1953-08-03 | Lihong     | Pusterhofer   | M | 2002-01-01 |
| 499838 | 1959-09-07 | Annemarie  | Peroz         | M | 2002-01-01 |
| 499849 | 1954-10-12 | Moriyoshi  | Pusterhofer   | F | 2002-01-01 |
| 499859 | 1962-05-20 | Huican     | Passafiume    | F | 2002-01-01 |
| 499870 | 1955-03-14 | Kayoko     | Peroz         | M | 2002-01-01 |
| 499873 | 1960-12-10 | Kasidit    | Picel         | F | 2002-01-01 |
| 499903 | 1959-06-30 | Premal     | Passino       | M | 2002-01-01 |
| 499912 | 1956-06-19 | Parke      | Pell          | F | 2002-01-01 |
| 499926 | 1956-10-15 | Youpyo     | Perfilyeva    | F | 2002-01-01 |
| 499929 | 1959-11-03 | Phillip    | Schnabel      | M | 2002-01-01 |
| 499935 | 1963-12-18 | Ymte       | Perelgut      | M | 2002-01-01 |
| 499937 | 1955-07-28 | Pantung    | Litzler       | F | 2002-01-01 |
| 499948 | 1953-05-24 | Cordelia   | Paludetto     | M | 2002-01-01 |
| 499953 | 1960-09-04 | Leszek     | Pulkowski     | M | 2002-01-01 |
| 499974 | 1956-09-10 | Shuichi    | Piazza        | F | 2002-01-01 |
| 499979 | 1962-10-29 | Prasadram  | Waleschkowski | M | 2002-01-01 |
| 499982 | 1954-08-25 | Mohammed   | Pleszkun      | M | 2002-01-01 |
| 499991 | 1962-02-26 | Pohua      | Sichman       | F | 2002-01-01 |
| 499998 | 1956-09-05 | Patricia   | Breugel       | M | 2002-01-01 |
+--------+------------+------------+---------------+---+------------+
31566 rows in set (0.41 sec)
```

Question 7:

```
mysql> SELECT * FROM employees LIMIT 15;
+--------+------------+------------+-----------+--------+------------+
| 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      | 2002-01-01 |
|  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      | 2002-01-01 |
|  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      | 2002-01-01 |
|  10010 | 1963-06-01 | Duangkaew  | Piveteau  | F      | 2002-01-01 |
|  10011 | 1953-11-07 | Mary       | Sluis     | F      | 1990-01-22 |
|  10012 | 1960-10-04 | Patricio   | Bridgland | M      | 2002-01-01 |
|  10013 | 1963-06-07 | Eberhardt  | Terkki    | M      | 1985-10-20 |
|  10014 | 1956-02-12 | Berni      | Genin     | M      | 1987-03-11 |
|  10015 | 1959-08-19 | Guoxiang   | Nooteboom | M      | 1987-07-02 |
+--------+------------+------------+-----------+--------+------------+
15 rows in set (0.00 sec)
```

Question 8:

```
mysql> SELECT * FROM employees WHERE emp_no IN (10048, 10099, 10234, 20089);
Empty set (0.00 sec)

mysql>
```

URL to GitHub Repository: