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

```
| 499900 | 1959-06-28 | Gino       | Usery        | M | 1991-02-11 |
| 499901 | 1955-01-02 | Yunming    | Mitina       | F | 1991-03-07 |
| 499902 | 1954-08-25 | Mohammed   | Pleszkun     | M | 1986-02-21 |
| 499903 | 1955-08-29 | Uri        | Juneja       | F | 1989-08-28 |
| 499904 | 1959-08-31 | Kaijung    | Rodham       | M | 1985-09-11 |
| 499905 | 1964-12-26 | Gila       | Lukaszewicz  | M | 1997-02-11 |
| 499906 | 1952-07-22 | Nathan     | Ranta        | F | 1985-08-11 |
| 499907 | 1961-09-05 | Rimli      | Dusink       | F | 1998-09-20 |
| 499908 | 1962-09-28 | Bangqing   | Kleiser      | F | 1986-06-06 |
| 499909 | 1954-05-26 | Keiichiro  | Lindqvist    | M | 1993-10-28 |
| 499910 | 1963-11-03 | Khaled     | Kohling      | M | 1985-10-10 |
| 499911 | 1962-02-26 | Pohua      | Sichman      | F | 1989-01-12 |
| 499912 | 1960-10-12 | Siamak     | Salverda     | F | 1987-05-10 |
| 499913 | 1963-06-04 | DeForest   | Mullainathan | M | 1997-04-07 |
| 499914 | 1952-02-26 | Navin      | Argence      | F | 1998-04-24 |
| 499915 | 1958-09-24 | Dekang     | Lichtner     | F | 1993-01-12 |
| 499916 | 1953-03-07 | Zito       | Baaz         | M | 1998-09-27 |
| 499917 | 1961-08-03 | Berhard    | Lenart       | M | 1986-04-21 |
| 499918 | 1956-09-05 | Patricia   | Breugel      | M | 1993-10-13 |
| 499999 | 1958-05-01 | Sachin     | Tsukuda      | M | 1997-11-30 |
+--------+------------+------------+--------------+---+------------+
+
298084 rows in set (0.21 sec)

mysql>
```

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

```
| 499894 | 1957-04-25 | Maja        | Lamba       | F | 1990-06-10 |
| 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 |
| 499914 | 1952-03-04 | Khoa        | Keirsey     | F | 1990-12-04 |
| 499916 | 1962-01-09 | Florina     | Cusworth    | F | 1997-05-18 |
| 499923 | 1964-12-21 | Sergi       | Melton      | F | 1993-04-08 |
| 499932 | 1962-05-19 | Shigeaki    | Narlikar    | F | 1990-09-27 |
| 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 | Yunning     | Mitina      | F | 1991-03-07 |
| 499987 | 1961-09-05 | Rimli       | Dusink      | F | 1998-09-20 |
| 499994 | 1952-02-26 | Navin       | Argence     | F | 1990-04-24 |
| 499995 | 1958-09-24 | Dekang      | Lichtner    | F | 1993-01-12 |
+--------+------------+-------------+-------------+---+------------+
53839 rows in set (0.18 sec)
```

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

```
| Ramzi      | Puruuate       |
| Oscal      | Fasbender      |
| Morris     | Famili         |
| Aleksander | Fioravanti     |
| Chiradeep  | Furedi         |
| Shin       | Foote          |
| Deniz      | Fontan         |
| Nathan     | Flowers        |
| Tse        | Felcyn         |
| Tadahiro   | Fordan         |
| Sahrah     | Figueira       |
| Dayanand   | Figueira       |
| Kwangjo    | Fiebach        |
| Gina       | Falster        |
| Bernice    | Felcyn         |
| Sreenivas  | Farrag         |
| Lillian    | Fontet         |
| Ult        | Farrar         |
| Heping     | Fontan         |
| Xiong      | Ferriere       |
| Kasturi    | Fraisse        |
+------------+----------------+
50 rows in set (0.00 sec)

mysql>
```

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

```
mysql> SELECT * FROM employees LIMIT 10;
+--------+------------+------------+-----------+--------+------------+
| emp_no | birth_date | first_name | last_name | gender | hire_date  |
+--------+------------+------------+-----------+--------+------------+
|    100 | 2001-01-01 | Test       | One       | F      | 2022-04-01 |
|    101 | 2001-02-02 | Test       | Two       | M      | 2022-03-01 |
|    102 | 2001-01-01 | Test       | Three     | F      | 2022-02-02 |
|  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 |
+--------+------------+------------+-----------+--------+------------+
10 rows in set (0.00 sec)
```

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

```
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)
```

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

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	Perez	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	Perez	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 (0.17 sec)

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

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

[mysql> SELECT * FROM employees LIMIT 20;
+--------+------------+------------+------------+--------+------------+
| 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 |
|  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 |
|  10014 | 1956-02-12 | Berni      | Genin      | M      | 1987-03-11 |
|  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 |
+--------+------------+------------+------------+--------+------------+
20 rows in set (0.00 sec)
```
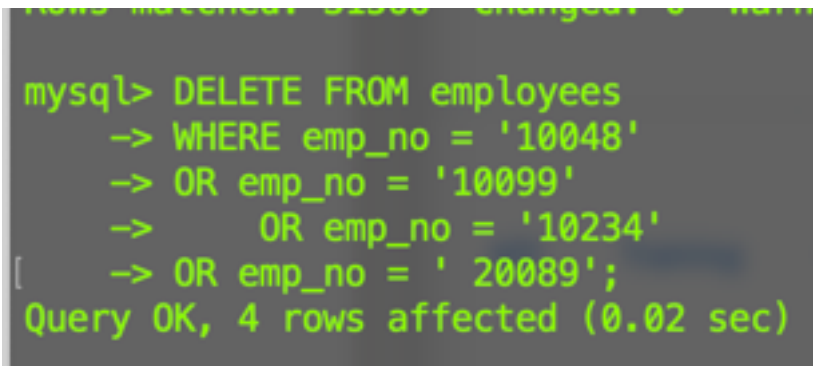
8. Delete all employee who have an emp_no of 10048, 10099, 10234, and 20089.

```
Rows matched: 31...   changed: ...
mysql> DELETE FROM employees
    -> WHERE emp_no = '10048'
    -> OR emp_no = '10099'
    ->     OR emp_no = '10234'
[   -> OR emp_no = ' 20089';
Query OK, 4 rows affected (0.02 sec)
```

Screenshots of Queries:

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

2. mysql> SELECT * FROM employees WHERE gender='F' AND hire_date>='1990-01-01';

3. mysql> SELECT first_name, last_name FROM employees WHERE last_name LIKE 'F%' LIMIT 50;

4. mysql> INSERT INTO employees VALUES (100, '2001-01-01', 'Test', 'One', 'F', '2022-04-01'), (101, '2001-02-02', 'Test', 'Two', 'M', '2022-03-01'), (102, '2001-01-01', 'Test', 'Three', 'F', '2022-02-02');

5. mysql> UPDATE employees SET first_name='Bob' WHERE emp_no=10023;

6. mysql> UPDATE employees SET hire_date = '2002-01-01' WHERE first_name LIKE 'P%' or last_name LIKE 'P%';

7. mysql> DELETE FROM employees WHERE emp_no<10000;

8. mysql> DELETE FROM employees WHERE emp_no = '10048' OR emp_no = '10099' OR emp_no = '10234' OR emp_no = '20089';

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

For my learning purposes I added directly under the question.

URL to GitHub Repository: https://github.com/thisLinda/SQLWeek7Assignment