

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: I had to limit them, my computer was taking too long.

```
mysql> select * from employees where birth_date < '1965-01-01' 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	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
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	2002-01-01
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)
```

```
mysql> select * from employees where gender = 'f' and hire_date > '1990-12-31' limit 20;
```

emp_no	birth_date	first_name	last_name	gender	hire_date
100	2001-01-02	Tom	Bacardi	F	2017-02-01
101	2002-02-02	Becky	Bell	F	2012-12-12
10006	1953-04-20	Anneke	Preusig	F	2002-01-01
10009	1952-04-19	Sumant	Peac	F	2002-01-01
10010	1963-06-01	Duangkaew	Piveteau	F	2002-01-01
10017	1958-07-06	Cristinel	Bouloucos	F	1993-08-03
10018	1954-06-19	Kazuhide	Peha	F	2002-01-01
10024	1958-09-05	Suzette	Petty	F	2002-01-01
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
10049	1961-04-24	Basil	Tramer	F	1992-05-04
10057	1954-05-30	Ebbe	Callaway	F	1992-01-15
10059	1953-09-19	Alejandro	McAlpine	F	1991-06-26
10101	1952-04-15	Perla	Heyers	F	2002-01-01
10102	1959-11-04	Paraskevi	Luby	F	2002-01-01
10107	1956-06-13	Dung	Baca	F	1994-03-22
10109	1958-11-25	Mariusz	Prampolini	F	2002-01-01
10114	1957-02-16	Munir	Demeyer	F	1992-07-17
10120	1960-03-26	Armond	Fairtlough	F	1996-07-06

```
20 rows in set (0.00 sec)
```

```
Command Prompt - mysql -u root -p
43639 rows in set (0.23 sec)

mysql> select first_name, last_name from employees where last_name like 'FX' limit 50;
+-----+-----+
| first_name | last_name |
+-----+-----+
| Georgi    | Facello  |
| Shahaf    | Famili   |
| Somnath   | Foote    |
| Sudhansan | Flasterstein |
| Armond    | Fairtlough |
| Ewing     | Foong    |
| Sumall    | Fongler  |
| Badri     | Furudate |
| Arve      | Fairtlough |
| Mohua     | Falck    |
| Pranav    | Furedi   |
| Kish      | Fusbender |
| Foong     | Flasterstein |
| Roded     | Facello  |
| Clyde     | Fandrianto |
| Anelli    | Feijde   |
| Masoud    | Fabrizio |
| Przemyslaw | Falby    |
| Hisao     | Famili   |
| Lalit     | Francisci |
| Heejo     | Frolund  |
| Otmar     | Feinberg |
| Unal      | Fendler  |
| Vuchang   | Francisci |
| Chenyi    | Feinberg |
| Shim      | Feldhoffer |
| Ashish    | Fortenbacher |
| Fan       | Fairtlough |
| Fen       | Fiebach  |
| Ramzi     | Furudate |
| Oscar     | Fusbender |
| 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   |
+-----+-----+
```

```
mysql> insert into employees values (100, '2001-01-02', 'Tom', 'Bacardi', 'F', '2017-02-01'), (101, '2002-02-02', 'Becky', 'Bell', 'f', '2012-12-12'), (102, '2022-03-30', 'Alexis', 'Flood', 'M', '2022-05-15');
Query OK, 3 rows affected (0.15 sec)
Records: 3 Duplicates: 0 Warnings: 0

mysql>
```

```
mysql> update employees set first_name = 'Bob' where emp_no =10023;
Query OK, 1 row affected (0.11 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> update employees set hire_date = '2002-01-01' where first_name like 'p%' or last_name like 'p%';
Query OK, 31566 rows affected (1.83 sec)
Rows matched: 31566 Changed: 31566 Warnings: 0
```

```
mysql> select * from employees limit 15;
```

emp_no	birth_date	first_name	last_name	gender	hire_date
100	2001-01-02	Tom	Bacardi	F	2017-02-01
101	2002-02-02	Becky	Bell	F	2012-12-12
102	2022-03-30	Alexis	Flood	M	2022-05-15
10000	2001-01-01	Tom	Smith	M	2017-06-06
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

```
15 rows in set (0.00 sec)
```

```
mysql> delete from employees where emp_no < 1000;
```

```
mysql> delete from employees where emp_no in(10048, 10099, 10234, 20089);  
Query OK, 4 rows affected (0.43 sec)
```

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

```
mysql> select * from employees where birth_date < '1965-01-01' 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	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
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	2002-01-01
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)

```
mysql> select * from employees where gender = 'f' and hire_date > '1990-12-31' limit 20;
```

emp_no	birth_date	first_name	last_name	gender	hire_date
100	2001-01-02	Tom	Bacardi	F	2017-02-01
101	2002-02-02	Becky	Bell	F	2012-12-12
10006	1953-04-20	Anneke	Preusig	F	2002-01-01
10009	1952-04-19	Sumant	Peac	F	2002-01-01
10010	1963-06-01	Duangkaew	Piveteau	F	2002-01-01
10017	1958-07-06	Cristinel	Bouloucos	F	1993-08-03
10018	1954-06-19	Kazuhide	Peha	F	2002-01-01
10024	1958-09-05	Suzette	Pettey	F	2002-01-01
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
10049	1961-04-24	Basil	Tramer	F	1992-05-04
10057	1954-05-30	Ebbe	Callaway	F	1992-01-15
10059	1953-09-19	Alejandro	McAlpine	F	1991-06-26
10101	1952-04-15	Perla	Heyers	F	2002-01-01
10102	1959-11-04	Paraskevi	Luby	F	2002-01-01
10107	1956-06-13	Dung	Baca	F	1994-03-22
10109	1958-11-25	Mariusz	Prampolini	F	2002-01-01
10114	1957-02-16	Munir	Demeyer	F	1992-07-17
10120	1960-03-26	Armond	Fairtlough	F	1996-07-06

20 rows in set (0.00 sec)

```
Command Prompt - mysql -u root -p

-----
first_name | last_name
-----
Badri      | Furudate
Arve       | Fairtlough
Mohua      | Falck
Pranav     | Furedi
Kish       | Fasbender
Foong      | Flasterstein
Roded     | Facello
Clyde      | Fandrianto
Anneli     | Frijda
Masoud     | Fabrizio
Przemyslaw| Falby
Hisao      | Familli
Lalit      | Francisci
Heejo      | Frolund
Otmarr     | Feinberg
Unal       | Fendler
Yuchang    | Francisci
Chenyi     | Feinberg
Shim       | Feldhoffer
Ashish     | Fortenbacher
Fan        | Fairtlough
Fen        | Fiebach
Ramzi      | Furudate
Oscal     | Fasbender
Morris     | Familli
Aleksander | Fioravanti
Chiradeep  | Furedi
Shin       | Foote
Deniz      | Fontan
Nathan     | Flowers
Tse        | Felcyn
Tadahi     | 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> insert into employees values (100, '2001-01-02', 'Tom', 'Bacardi', 'F', '2017-02-01'), (101, '2002-02-02', 'Becky', 'Bell', 'f', '2012-12-12'), (102, '2022-03-30', 'Alexis', 'Flood', 'M', '2022-05-15');
Query OK, 3 rows affected (0.15 sec)
Records: 3 Duplicates: 0 Warnings: 0
```

```
Command Prompt - mysql -u root -p

-----
first_name | last_name
-----
Georgi     | Facello
Shahaf     | Familli
Somanath   | Foote
Sudharshan | Flasterstein
Armond     | Fairtlough
Ewing      | Foong
Sumali     | Fargier
Badri      | Furudate
Arve       | Fairtlough
Mohua      | Falck
Pranav     | Furedi
Kish       | Fasbender
Foong      | Flasterstein
Roded     | Facello
Clyde      | Fandrianto
Anneli     | Frijda
Masoud     | Fabrizio
Przemyslaw| Falby
Hisao      | Familli
Lalit      | Francisci
Heejo      | Frolund
Otmarr     | Feinberg
Unal       | Fendler
Yuchang    | Francisci
Chenyi     | Feinberg
Shim       | Feldhoffer
Ashish     | Fortenbacher
Fan        | Fairtlough
Fen        | Fiebach
Ramzi      | Furudate
Oscal     | Fasbender
Morris     | Familli
Aleksander | Fioravanti
Chiradeep  | Furedi
Shin       | Foote
Deniz      | Fontan
Nathan     | Flowers
Tse        | Felcyn
Tadahi     | Fordan
Sahrah     | Figueira
Dayanand   | Figueira
Kwangjo    | Fiebach
Gina       | Falster
Bernice    | Felcyn
Sreenivas  | Farrag
Lillian    | Fontet
-----
13039 rows in set (0.23 sec)

mysql> select first_name, last_name from employees where last_name like 'FX' limit 50;
```

```
mysql> insert into employees values (100, '2001-01-02', 'Tom', 'Bacardi', 'F', '2017-02-01'), (101, '2002-02-02', 'Becky', 'Bell', 'f', '2012-12-12'), (102, '2022-03-30', 'Alexis', 'Flood', 'M', '2022-05-15');
Query OK, 3 rows affected (0.15 sec)
Records: 3 Duplicates: 0 Warnings: 0

mysql> select * from employees limit 50;
```

emp_no	birth_date	first_name	last_name	gender	hire_date
100	2001-01-02	Tom	Bacardi	F	2017-02-01
101	2002-02-02	Becky	Bell	F	2012-12-12
102	2022-03-30	Alexis	Flood	M	2022-05-15
10000	2001-01-01	Tom	Smith	M	2017-06-06
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

499799	1962-08-23	Howell	Petereit	M	2002-01-01
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

```
mysql> delete from employees where emp_no < 1000;
Query OK, 3 rows affected (0.35 sec)
```

```
mysql> select * from employees limit 15;
```

emp_no	birth_date	first_name	last_name	gender	hire_date
10000	2001-01-01	Tom	Smith	M	2017-06-06
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

```
15 rows in set (0.00 sec)
```

```
mysql> select * from employees where emp_no in (10048, 10099, 10234, 20089);  
Empty set (0.00 sec)
```

URL to GitHub Repository: <https://github.com/CodingVegas/mySQLWeek7>