

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

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

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

```
mysql> SELECT * FROM employees WHERE gender = 'F' AND hire_date > '1990-12-31';
```

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

```
mysql> SELECT * 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.

```
mysql> INSERT INTO employees VALUES(100, '2000-01-01', 'Jake', 'Smith', 'M', '2012-03-02'),  
-> (101, '1992-02-13', 'Sam', 'William', 'F', '2003-10-06'),  
-> (102, '1999-12-31', 'Wes', 'Mike', 'M', '2007-08-17');
```

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

```
mysql> 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.

```
mysql> 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

```
mysql> 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 OR emp_no = 10099 OR emp_no = 20089;
```

Screenshots of Queries:

```
mysql> SELECT * FROM employees WHERE hire_date < '1965-01-01';
Empty set (0.12 sec)

mysql>
```

```
mysql> SELECT * FROM employees WHERE gender = 'F' AND hire_date > '1990-12-31';
```

emp_no	birth_date	first_name	last_name	gender	hire_date
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	Marlusz	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
10139	1963-03-03	Ewing	Foong	F	1998-03-15
10140	1957-03-11	Yucel	Auria	F	1991-03-14
10141	1960-01-17	Shahaf	Ishibashi	F	1993-05-06
10149	1953-05-20	Xiadong	Perry	F	2002-01-01
10150	1955-01-29	Zhenbing	Perng	F	2002-01-01
10166	1953-05-10	Samphel	Siegrist	F	1993-01-01
10169	1961-05-03	Sampalli	Snedden	F	1992-07-24
10172	1957-03-25	Shigeu	Matzen	F	1995-10-13
10176	1957-01-24	Brendan	Lenart	F	1994-12-22
10187	1961-05-26	Tomaso	Narwekar	F	1991-06-01
10197	1963-08-06	Kasidit	Krzyzanowski	F	1993-11-22
10205	1953-05-20	Mubhin	Leijenhorst	F	1993-08-23
10207	1955-05-28	Girolamo	Anandan	F	1992-10-11
10209	1956-12-12	Volla	Ellozy	F	1991-11-23
10220	1958-05-25	Kish	Fasbender	F	1992-06-25
10228	1953-04-21	Karoline	Cesareni	F	1991-08-26
10231	1963-07-21	Shaowen	Desikan	F	1996-04-13
10232	1956-03-11	Marko	Auria	F	1992-06-04
10236	1958-03-27	Susanta	Rocchetti	F	1995-04-06
10236	1960-03-26	Susumu	Bade	F	1996-08-30
10239	1955-03-31	Nikolaos	Llado	F	1995-05-08
10247	1964-06-30	Heon	Riefers	F	1992-08-14
10248	1955-09-24	Frederique	Tempesti	F	1991-08-13
10260	1961-07-14	Alper	Suomi	F	1991-04-13
10262	1955-08-04	Mahendra	Maraist	F	1992-07-27
10264	1958-09-08	Nalini	Kawashimo	F	1997-07-16
10274	1957-08-23	Dmitri	Pearson	F	2002-01-01
10279	1964-08-20	Barton	Jumpertz	F	1994-12-20

```
mysql> SELECT * FROM employees WHERE last_name LIKE 'F%' LIMIT 50;
```

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	Footo	M	1998-02-16
10089	1963-03-24	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	2002-01-01
10220	1958-05-25	Kish	Fasbender	F	1992-06-25
10244	1961-10-24	Foong	Flasterstein	M	1985-12-23
10327	1954-04-01	Rodol	Facello	F	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	Przemyslaw	Falby	M	2002-01-01
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	Otmaz	Feinberg	M	1987-04-30
10696	1952-03-23	Umi	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	Footo	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	Tadahi	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

```

mysql> INSERT INTO employees VALUES(100, '2000-01-01', 'Jake', 'Smith', 'M', '2012-03-02'),
-> ( 101, '1992-02-13', 'Sam', 'William', 'F', '2003-10-06'),
-> ( 102, '1999-12-31', 'Wes', 'Mike', 'M', '2007-08-17');
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0

mysql> SELECT * FROM employees;
+-----+-----+-----+-----+-----+-----+
| emp_no | birth_date | first_name | last_name | gender | hire_date |
+-----+-----+-----+-----+-----+-----+
| 100 | 2000-01-01 | Jake | Smith | M | 2012-03-02 |
| 101 | 1992-02-13 | Sam | William | F | 2003-10-06 |
| 102 | 1999-12-31 | Wes | Mike | M | 2007-08-17 |
| 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 |
| 10015 | 1959-08-19 | Guoxiang | Nootenboom | 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 |
| 10021 | 1960-02-20 | Ramzi | Erde | M | 1988-02-10 |
| 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 | 2002-01-01 |
| 10025 | 1958-10-31 | Prasadram | Heyers | M | 2002-01-01 |
| 10026 | 1953-04-03 | Yongqiao | Berziss | M | 1995-03-20 |
| 10027 | 1962-07-10 | Divier | Reistad | F | 1989-07-07 |
| 10028 | 1963-11-26 | Domenick | Tempesti | M | 1991-10-22 |
| 10029 | 1956-12-13 | Otmar | Herbst | M | 1985-11-20 |
| 10030 | 1958-07-14 | Elvis | Demeyer | M | 1994-02-17 |
| 10031 | 1959-01-27 | Josien | Kersten | M | 1991-09-01 |
| 10032 | 1960-08-09 | Jeong | Reistad | F | 1990-06-20 |
| 10033 | 1956-11-14 | Arif | Merlo | M | 1987-03-18 |
| 10034 | 1962-12-29 | Bader | Swan | M | 1988-09-21 |
| 10035 | 1953-02-08 | Alain | Chappellet | M | 1988-09-05 |
| 10036 | 1959-08-10 | Adamantios | Portugali | M | 2002-01-01 |
| 10037 | 1963-07-22 | Pradeep | Makrucki | M | 2002-01-01 |
| 10038 | 1960-07-20 | Huan | Lortz | M | 1989-09-20 |
| 10039 | 1950-10-01 | Alejandro | Brender | M | 1988-01-19 |
| 10040 | 1959-09-13 | Weiyl | Meriste | F | 1993-02-14 |
| 10041 | 1959-08-27 | Uri | Lenart | F | 1989-11-12 |
| 10042 | 1956-02-26 | Magy | Stamatiou | F | 1993-03-21 |

```

```

mysql> UPDATE employees SET first_name = 'Bob' WHERE emp_no = 10023;
Query OK, 1 row affected (0.03 sec)
Rows matched: 1 Changed: 1 Warnings: 0

```

```

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)

```

```

Command Prompt - mysql -u root -p
mysql> UPDATE employees SET hire_date = '2002-01-01' WHERE first_name LIKE 'p%' OR last_name LIKE 'p%';
Query OK, 31564 rows affected (0.57 sec)
Rows matched: 31564 Changed: 31564 Warnings: 0

```

```

mysql> SELECT * FROM employees WHERE first_name LIKE 'p%' OR last_name LIKE 'p%';
+-----+-----+-----+-----+-----+-----+
| emp_no | birth_date | first_name | last_name | gender | hire_date |
+-----+-----+-----+-----+-----+-----+
| 10009 | 1952-04-19 | Sumant | Peac | F | 2002-01-01 |
| 10010 | 1963-06-01 | Duangkaew | Piveteau | F | 2002-01-01 |
| 10012 | 1960-10-04 | Patricio | Bridgland | M | 2002-01-01 |
| 10018 | 1954-06-19 | Kazuhide | Peha | F | 2002-01-01 |
| 10024 | 1958-09-05 | Suzette | Pettey | F | 2002-01-01 |
| 10025 | 1958-10-31 | Prasadram | Heyers | M | 2002-01-01 |
| 10036 | 1959-08-10 | Adamantios | Portugali | M | 2002-01-01 |
| 10037 | 1963-07-22 | Pradeep | Makrucki | M | 2002-01-01 |
| 10062 | 1961-11-02 | Anosh | Reyn | M | 2002-01-01 |
| 10080 | 1957-12-03 | Premal | Baek | M | 2002-01-01 |
| 10082 | 1963-09-09 | Parviz | Lortz | M | 2002-01-01 |
| 10101 | 1952-04-15 | Perla | Heyers | F | 2002-01-01 |
| 10102 | 1959-11-04 | Paraskevi | Luby | F | 2002-01-01 |
| 10105 | 1962-02-05 | Hironoby | Piveteau | M | 2002-01-01 |
| 10109 | 1958-11-25 | Mariusz | Prampolini | F | 2002-01-01 |
| 10119 | 1960-12-01 | Domenick | Peltason | M | 2002-01-01 |
| 10129 | 1955-12-02 | Armond | Peir | M | 2002-01-01 |
| 10136 | 1961-09-14 | Zisis | Pintelas | M | 2002-01-01 |
| 10138 | 1955-04-24 | Perry | Shimshoni | M | 2002-01-01 |
| 10149 | 1953-05-20 | Xiadong | Perry | F | 2002-01-01 |
| 10150 | 1955-01-29 | Zhenbing | Perng | F | 2002-01-01 |
| 10177 | 1954-11-08 | Pragnesh | Iisaka | M | 2002-01-01 |
| 10198 | 1953-05-28 | Pranav | Furedi | M | 2002-01-01 |
| 10226 | 1964-12-28 | Xinglin | Plessier | M | 2002-01-01 |
| 10243 | 1960-12-22 | Wonhee | Pouyioutas | M | 2002-01-01 |
| 10274 | 1957-08-23 | Delfri | Pearson | F | 2002-01-01 |
| 10285 | 1956-09-21 | Zhonghui | Preusig | F | 2002-01-01 |
| 10287 | 1963-11-28 | Marie | Pietracaprina | M | 2002-01-01 |
| 10288 | 1959-06-02 | Selwyn | Perri | M | 2002-01-01 |
| 10289 | 1956-11-30 | Shay | Poulakidas | M | 2002-01-01 |
| 10290 | 1957-05-29 | Yongmao | Pleszkun | M | 2002-01-01 |
| 10296 | 1964-05-13 | Petter | Lorho | M | 2002-01-01 |
| 10305 | 1952-06-30 | Hirochika | Piancastelli | M | 2002-01-01 |
| 10309 | 1961-11-06 | Prodip | Schusler | F | 2002-01-01 |
| 10347 | 1953-10-03 | Pradeep | Kominger | M | 2002-01-01 |
| 10348 | 1956-03-11 | Mahendra | Picco | F | 2002-01-01 |
| 10353 | 1953-01-15 | Phule | Hammerschmidt | M | 2002-01-01 |
| 10366 | 1960-01-25 | Morrie | Piazza | M | 2002-01-01 |
| 10381 | 1963-03-04 | Jiong | Parfitt | M | 2002-01-01 |
| 10387 | 1952-11-03 | Parto | Wrigley | F | 2002-01-01 |
| 10389 | 1953-03-24 | Make | Peir | M | 2002-01-01 |

```

```
Command Prompt - mysql -u root -p
mysql> DELETE FROM employees WHERE emp_no < 10000;
Query OK, 3 rows affected (0.01 sec)

mysql> SELECT * FROM employees;
+-----+-----+-----+-----+-----+-----+
| emp_no | birth_date | first_name | last_name | gender | hire_date |
+-----+-----+-----+-----+-----+-----+
| 10008 | 1958-02-19 | Saniya | Kalloufi | M | 1994-09-15 |
| 10009 | 1952-04-19 | Sumant | Peak | F | 2002-01-01 |
| 10010 | 1963-06-01 | Duangkhaew | 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 |
| 10015 | 1959-08-19 | Guoxiang | Nootboom | 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 | Paha | F | 2002-01-01 |
| 10019 | 1953-01-23 | Lillian | Haddadi | M | 1999-04-30 |
| 10020 | 1952-12-24 | Mayuko | Warwick | M | 1991-01-26 |
| 10021 | 1960-02-20 | Ramzi | Erde | M | 1988-02-10 |
| 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 | 2002-01-01 |
| 10025 | 1958-10-31 | Prasadram | Heyers | M | 2002-01-01 |
| 10026 | 1953-04-03 | Yonglao | Berttiss | M | 1995-03-29 |
| 10027 | 1962-07-10 | Olivier | Reistad | F | 1989-07-07 |
| 10028 | 1963-11-26 | Domenick | Tempesti | M | 1991-10-22 |
| 10029 | 1956-12-13 | Otmar | Herbit | M | 1985-11-20 |
| 10030 | 1958-07-14 | Elvis | Demeyer | M | 1994-02-17 |
| 10031 | 1959-01-27 | Karsten | Joslin | M | 1991-09-01 |
| 10032 | 1960-08-09 | Jeong | Reistad | F | 1990-06-20 |
| 10033 | 1956-11-14 | Arif | Merlo | M | 1987-03-18 |
| 10034 | 1962-12-29 | Bader | Swan | M | 1988-09-21 |
| 10035 | 1953-02-08 | Albin | Chappellet | F | 1988-09-05 |
| 10036 | 1959-08-10 | Adamantios | Portugali | M | 2002-01-01 |
| 10037 | 1963-07-22 | Pradeep | Makrucki | M | 2002-01-01 |
| 10038 | 1960-07-20 | Huan | Lortz | M | 1989-09-20 |
| 10039 | 1959-10-01 | Alejandro | Brender | M | 1988-01-19 |
| 10040 | 1959-09-13 | Weiyl | Meriste | F | 1993-02-14 |
| 10041 | 1959-08-27 | Uri | Lenart | F | 1989-11-12 |
| 10042 | 1956-02-26 | Magy | Stamatliou | F | 1993-03-21 |
| 10043 | 1960-09-19 | Yishay | Tzvieli | M | 1990-10-20 |
| 10044 | 1961-09-21 | Mingsen | Casley | F | 1994-05-21 |
| 10045 | 1957-08-14 | Moss | Shanbhogue | M | 1989-09-02 |
| 10046 | 1960-07-23 | Lucien | Rosenbaum | M | 1992-06-20 |
| 10047 | 1952-06-29 | Zvonko | Nyanchama | M | 1989-03-31 |
| 10048 | 1963-07-11 | Florian | Syrotiuk | M | 1985-02-24 |
| 10049 | 1961-04-24 | Basil | Tramer | F | 1992-05-04 |
| 10050 | 1958-05-21 | Yinghua | Dredge | M | 1990-12-25 |

mysql> SELECT * FROM employees WHERE emp_no = 10048;
+-----+-----+-----+-----+-----+-----+
| emp_no | birth_date | first_name | last_name | gender | hire_date |
+-----+-----+-----+-----+-----+-----+
| 10048 | 1963-07-11 | Florian | Syrotiuk | M | 1985-02-24 |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> DELETE FROM employees WHERE emp_no = 10048 OR emp_no = 10099 OR emp_no = 20089;
Query OK, 3 rows affected (0.01 sec)

mysql> SELECT * FROM employees WHERE emp_no = 10048 OR emp_no = 10099 OR emp_no = 20089;
Empty set (0.00 sec)

mysql>
```

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

URL to GitHub Repository: