

Relational Databases with MySQL Week 1 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, with your Java project code, to the 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 birth_date < '1965-01-01'; ●
```

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
10021	1960-02-20	Ramzi	Erde	M	1988-02-10
10022	1952-07-08	Shahaf	Famili	M	1995-08-22
10023	1953-09-29	Bojan	Montemayor	F	1989-12-17
10024	1958-09-05	Suzette	Pettey	F	1997-05-19
10025	1958-10-31	Prasadram	Heyers	M	1987-08-17
10026	1953-04-03	Yongqiao	Berztiss	M	1995-03-20
10027	1962-07-10	Divier	Reistad	F	1989-07-07

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'; ●
```

emp_no	birth_date	first_name	last_name	gender	hire_date
10017	1958-07-06	Cristinel	Bouloucos	F	1993-08-03
10024	1958-09-05	Suzette	Pettey	F	1997-05-19
10040	1959-09-13	Weiyl	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	1992-12-28
10102	1959-11-04	Paraskevi	Luby	F	1994-01-26
10107	1956-06-13	Dung	Baca	F	1994-03-22
10109	1958-11-25	Mariusz	Prampolini	F	1993-06-16
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
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	Brendon	Lenart	F	1994-12-22
10187	1961-05-26	Tommaso	Narwekar	F	1991-06-01
10197	1963-08-06	Kasidit	Krzyzanowski	F	1993-11-22
10205	1953-05-20	Mabhin	Leijenhorst	F	1993-08-23
10207	1955-05-28	Girolamo	Anandan	F	1992-10-11
10209	1956-12-12	Yolla	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
10235	1958-03-27	Susanta	Rocchetti	F	1995-04-06
10236	1960-03-26	Susumu	Bade	F	1996-08-30

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

```
mysql> SELECT first_name, last_name FROM employees WHERE last_name LIKE 'f%' LIMIT 50; ●
```

first_name	last_name
Georgi	Facello
Shahaf	Famili
Somnath	Foote
Sudharsan	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	Famili
Lalit	Francisci
Heejo	Frolund
Otmar	Feinberg
Unal	Fendler
Yuchang	Francisci
Chenyi	Feinberg

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,'1908-04-04','Gene','Stapler','M','1910-09-04'), ●
-> (101,'1988-05-05','Mark','Cat','F','1994-09-04'), ●
-> (102,'1832-08-08','Reginald','Triangle','M','1866-03-03'); ●
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0

mysql> SELECT * FROM employees LIMIT 5;
```

emp_no	birth_date	first_name	last_name	gender	hire_date
100	1908-04-04	Gene	Stapler	M	1910-09-04
101	1988-05-05	Mark	Cat	F	1994-09-04
102	1832-08-08	Reginald	Triangle	M	1866-03-03
10001	1953-09-02	Georgi	Facello	M	1986-06-26
10002	1964-06-02	Bezalel	Simmel	F	1985-11-21

5 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> 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 ●

mysql> SELECT emp_no=10023;
ERROR 1054 (42S22): Unknown column 'emp_no' in 'field list'
mysql> SELECT emp_no=10023 FROM employees;
+-----+
| emp_no=10023 |
+-----+
|              |
|              |
|              |
```

```

|              |
|              |
| C -- query aborted
|              |
+-----+
300027 rows in set (0.19 sec)

mysql>
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 (0.01 sec)
```

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%'; ●
Query OK, 10247 rows affected (0.74 sec) ●
Rows matched: 10247  Changed: 10247  Warnings: 0
```

```
mysql> UPDATE employees SET hire_date = '2002-01-01' WHERE last_name LIKE 'p%'; ●
Query OK, 21319 rows affected (0.88 sec) ●
Rows matched: 22088  Changed: 21319  Warnings: 0
```

```
mysql> SELECT * FROM employees WHERE first_name LIKE 'p%' AND last_name LIKE 'p%' LIMIT 20; ●
```

emp_no	birth_date	first_name	last_name	gender	hire_date
11606	1952-11-05	Perry	Pepe	M	2002-01-01
12227	1958-09-21	Pramod	Percebois	M	2002-01-01
12780	1963-01-24	Premal	Puppo	M	2002-01-01
13401	1961-07-30	Przemyslaw	Pavlopoulou	M	2002-01-01
13480	1962-10-24	Patricio	Parascandalo	M	2002-01-01
13541	1962-01-03	Pasqua	Peral	F	2002-01-01
14518	1955-06-19	Patricia	Peir	M	2002-01-01
14672	1964-07-01	Parto	Pietracaprina	M	2002-01-01
15293	1964-04-29	Pantung	Puppo	M	2002-01-01
15347	1958-03-30	Przemyslaw	Paciorek	M	2002-01-01
15369	1952-10-11	Premal	Penttonen	F	2002-01-01
15509	1962-09-25	Przemyslaw	Puoti	M	2002-01-01
16470	1961-01-05	Poornachandra	Plesums	F	2002-01-01
16516	1963-04-29	Persi	Porenta	M	2002-01-01
16634	1956-08-20	Parviz	Peroz	F	2002-01-01
17074	1960-01-03	Pramod	Pleszkun	M	2002-01-01
17536	1959-03-07	Padma	Pollacia	F	2002-01-01
17725	1960-06-18	Parviz	Poulakidas	M	2002-01-01
18712	1958-04-02	Pranay	Panwar	F	2002-01-01
18910	1952-08-21	Pantung	Peral	F	2002-01-01

```
20 rows in set (0.03 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 (0.02 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	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)
```

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

```
mysql> DELETE FROM employees WHERE emp_no = 10048 AND emp_no = 10099 AND emp_no = 10234 AND emp_no = 20089;
Query OK, 0 rows affected (0.00 sec)

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

mysql> DELETE FROM employees WHERE emp_no = 10099 OR emp_no = 10234 OR emp_no = 20089;
Query OK, 3 rows affected (0.02 sec) ●

mysql> SELECT * FROM employees WHERE emp_no = 10048 OR emp_no = 10099 OR emp_no = 10234 OR emp_no = 20089;
Empty set (0.00 sec) ●

mysql> SELECT * FROM employees WHERE emp_no < 10045 AND emp_no > 10050;
Empty set (0.00 sec)

mysql> SELECT * FROM employees WHERE emp_no > 10045 AND emp_no < 10050; ●
+-----+-----+-----+-----+-----+-----+
| emp_no | birth_date | first_name | last_name | gender | hire_date |
+-----+-----+-----+-----+-----+-----+
| 10046 | 1960-07-23 | Lucien | Rosenbaum | M | 1992-06-20 |
| 10047 | 1952-06-29 | Zvonko | Nyanchama | M | 1989-03-31 |
| 10049 | 1961-04-24 | Basil | Tramer | F | 1992-05-04 |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

URL to GitHub Repository:

<https://github.com/wlindstrom55/MYSQL-wk1-coding-assignments>