

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 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

```
SELECT * FROM employees WHERE birth_date < '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	Petty	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
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	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	Alain	Chappelet	M	1988-09-05
10036	1959-08-10	Adamantios	Portugali	M	1992-01-03
10037	1963-07-22	Pradeep	Makrucki	M	1990-12-05
10038	1960-07-20	Huan	Lortz	M	1989-09-20
10039	1959-10-01	Alejandro	Brender	M	1988-01-19
10040	1959-09-13	Weiyi	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
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
10051	1953-07-28	Hidefumi	Caine	M	1992-10-15
10052	1961-02-26	Heping	Nitsch	M	1988-05-21
10053	1954-09-13	Sanjiv	Zschoche	F	1986-02-04
10054	1957-04-04	Mayumi	Schueller	M	1995-03-13
10055	1956-06-06	Georgy	Dredge	M	1992-04-27
10056	1961-09-01	Brendon	Bernini	F	1990-02-01
10057	1954-05-30	Ebbe	Callaway	F	1992-01-15
10058	1954-10-01	Berhard	McFarlin	M	1987-04-13
10059	1953-09-19	Alejandro	McAlpine	F	1991-06-26

```
-----+-----+-----+-----+-----+
298084 rows in set (0.30 sec)

mysql> _
```

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

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

25000+ rows in set (0.30 sec)

```
mysql> SELECT * FROM employees WHERE gender = 'f' AND hire_date > '1900-12-31';
```

emp_no	birth_date	first_name	last_name	gender	hire_date
--------	------------	------------	-----------	--------	-----------

emp_no	birth_date	first_name	last_name	gender	hire_date
10002	1964-06-02	Bezalel	Simmel	F	1985-11-21
10006	1953-04-20	Anneke	Preusig	F	1989-06-02
10007	1957-05-23	Tzvetan	Zielinski	F	1989-02-10
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
10017	1958-07-06	Cristinel	Bouloucos	F	1993-08-03
10018	1954-06-19	Kazuhide	Peha	F	1987-04-03
10023	1953-09-29	Bojan	Montemayor	F	1989-12-17
10024	1958-09-05	Suzette	Petty	F	1997-05-19
10027	1962-07-10	Divier	Reistad	F	1989-07-07
10032	1960-08-09	Jeong	Reistad	F	1990-06-20
10040	1959-09-13	Weiyi	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
10044	1961-09-21	Mingsen	Casley	F	1994-05-21
10049	1961-04-24	Basil	Tramer	F	1992-05-04
10053	1954-09-13	Sanjiv	Zschoche	F	1986-02-04
10056	1961-09-01	Brendon	Bernini	F	1990-02-01
10057	1954-05-30	Ebbe	Callaway	F	1992-01-15
10059	1953-09-19	Alejandro	McAlpine	F	1991-06-26
10063	1952-08-06	Gino	Leonhardt	F	1989-04-08
10069	1960-09-06	Margareta	Bierman	F	1989-11-05
10072	1952-05-15	Hironoby	Sidou	F	1988-07-21
10074	1955-08-28	Mokhtar	Bernatsky	F	1990-08-13
10075	1960-03-09	Gao	Dolinsky	F	1987-03-19
10076	1952-06-13	Erez	Ritzmann	F	1985-07-09
10078	1959-12-25	Danel	Mondadori	F	1987-05-26
10079	1961-10-05	Kshiti	Gils	F	1986-03-27
10087	1959-07-23	Xinglin	Eugenio	F	1986-09-08
10088	1954-02-25	Jungsoon	Syrzycki	F	1988-09-02
10089	1963-03-21	Sudharsan	Flasterstein	F	1986-08-12
10092	1964-10-18	Valdiodio	Niizuma	F	1989-09-22
10094	1957-05-25	Arumugam	Ossenbruggen	F	1987-04-18
10098	1961-09-23	Sreekrishna	Servieres	F	1985-05-13
10099	1956-05-25	Valter	Sullins	F	1988-10-18
10100	1953-04-21	Hironobu	Haraldson	F	1987-09-21
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
10110	1957-03-07	Xuejia	Ullian	F	1986-08-22
10111	1963-08-29	Hugo	Rosis	F	1988-06-19
10112	1963-08-13	Yuichiro	Swick	F	1985-10-08
10114	1957-02-16	Munir	Demeyer	F	1992-07-17
10116	1955-08-26	Dayanand	Czap	F	1985-05-28
10117	1961-10-24	Kiyotoshi	Blokdijs	F	1990-05-28
10118	1957-03-29	Zhonghui	Zyda	F	1990-09-13
10120	1960-03-26	Armond	Fairtlough	F	1996-07-06
10125	1957-09-13	Syozo	Hiltgen	F	1990-10-26
10127	1952-02-24	Subir	Baja	F	1989-01-14
10128	1958-02-15	Babette	Lamba	F	1988-06-06
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
10145	1956-03-30	Akemi	Esposito	F	1987-08-01
10149	1953-05-20	Xiadong	Perry	F	1986-11-05
10150	1955-01-29	Zhenbing	Perng	F	1986-11-16
10152	1954-12-01	Jaques	Munro	F	1986-01-27
10154	1957-01-17	Abdulah	Thibadeau	F	1990-12-12

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

```
SELECT first_name, last_name FROM employees WHERE last_name LIKE 'F%' LIMIT 50;
```

```
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
Shim	Feldhoffer
Ashish	Fortenbacher
Fan	Fairtlough
Fen	Fiebach
Ramzi	Furudate
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	Fraisie

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

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.

```
INSERT INTO employees VALUES(100, '1995-07-28', 'Drake', 'Droke', 'M', '2019-02-02'),
(101, '1993-06-02', 'Eliza', 'Skyler', 'F', '2011-08-03'),
(102, '1997-02-07', 'Jojo', 'Marie', 'F', '2015-06-27');
```

```
mysql> INSERT INTO employees VALUES(100, '1995-07-28', 'Drake', 'Droke', 'M', '2019-02-02'),
-> (101, '1993-06-02', 'Eliza', 'Skyler', 'F', '2011-08-03'),
-> (102, '1997-02-07', 'Jojo', 'Marie', 'F', '2015-06-27');
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0
```

```
SELECT * FROM employees LIMIT 3;
```

```
mysql> SELECT * FROM employees LIMIT 3;
+-----+-----+-----+-----+-----+-----+
| emp_no | birth_date | first_name | last_name | gender | hire_date |
+-----+-----+-----+-----+-----+-----+
| 100 | 1995-07-28 | Drake | Droke | M | 2019-02-02 |
| 101 | 1993-06-02 | Eliza | Skyler | F | 2011-08-03 |
| 102 | 1997-02-07 | Jojo | Marie | F | 2015-06-27 |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

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

```
UPDATE employees SET first_name = 'Bob' WHERE emp_no = 10023;
```

```
mysql> UPDATE employees SET first_name = 'Bob' WHERE emp_no = 10023;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
SELECT * FROM employees WHERE emp_no = 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 |
+-----+-----+-----+-----+-----+-----+
```

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

```
UPDATE employees SET hire_date = '2002-01-01' WHERE (last_name LIKE 'p%') OR
(first_name LIKE 'p%');
```

```
mysql> UPDATE employees SET hire_date = '2002-01-01' WHERE (last_name LIKE 'p%') OR (first_name LIKE 'p%');
Query OK, 31566 rows affected (0.46 sec)
Rows matched: 31566 Changed: 31566 Warnings: 0
```



```
SELECT first_name, last_name, hire_date FROM employees WHERE hire_date = '2002-01-01'
AND (last_name LIKE 'p%') OR (first_name LIKE 'p%');
```

Hercules	Porotnikoff	2002-01-01
Lakshmi	Polajnar	2002-01-01
Mechthild	Poupard	2002-01-01
Kotesh	Plumb	2002-01-01
Howell	Petereit	2002-01-01
Sverrir	Pelc	2002-01-01
Paris	Deyuan	2002-01-01
Lihong	Pusterhofer	2002-01-01
Annemarie	Peroz	2002-01-01
Moriyoshi	Pusterhofer	2002-01-01
Huican	Passafiume	2002-01-01
Kayoko	Peroz	2002-01-01
Kasidit	Picel	2002-01-01
Premal	Passino	2002-01-01
Parke	Pell	2002-01-01
Youpyo	Perfilyeva	2002-01-01
Phillip	Schnabel	2002-01-01
Ymte	Perelgut	2002-01-01
Pantung	Litzler	2002-01-01
Cordelia	Paludetto	2002-01-01
Leszek	Pulkowski	2002-01-01
Shuichi	Piazza	2002-01-01
Prasadram	Waleschkowski	2002-01-01
Mohammed	Pleszkun	2002-01-01
Pohua	Sichman	2002-01-01
Patricia	Breugel	2002-01-01

-----+-----+-----+
31566 rows in set (0.13 sec)

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

```
DELETE FROM employees WHERE emp_no < 10000;
```

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

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

DELETE FROM employees WHERE emp_no IN (10048, 10099, 10234, 20089);

```
mysql> DELETE FROM employees WHERE emp_no IN (10048, 10099, 10234, 20089);
Query OK, 4 rows affected (0.01 sec)
```

Screenshots of Queries:

```
1 • use employees;
2
3 -- 1. Show all employees who were born before 1965-01-01
4 • SELECT * FROM employees WHERE birth_date < '1965-01-01';
5
6 -- 2. Show all employees who are female and were hired after 1990
7 • SELECT * FROM employees WHERE gender = 'f' AND hire_date > '1990-12-31';
8
9 -- 3. Show the first and last name of the first 50 employees whose last name starts with F
10 • SELECT first_name, last_name FROM employees WHERE last_name LIKE 'f%' LIMIT 50;
11
12 -- 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.
13 • INSERT INTO employees VALUES(100, '1995-07-28', 'Drake', 'Droke', 'M', '2019-02-02'),
14     (101, '1993-06-02', 'Eliza', 'Skyler', 'F', '2011-08-03'),
15     (102, '1997-02-07', 'Jojo', 'Marie', 'F', '2015-06-27');
16 -- Below is to see the created/inserted new employees since they are the first 3
17 • SELECT * FROM employees LIMIT 3;
18
19 -- 5. Change the employee's first name to Bob for the employee with the emp_no of 10023.
20 • UPDATE employees SET first_name = 'Bob' WHERE emp_no = 10023;
21 -- Below is how to see Bobs information
22 • SELECT * FROM employees WHERE emp_no = 10023;
23
24 -- 6. Change all employees hire dates to 2002-01-01 whose first or last names start with P.
25 • UPDATE employees SET hire_date = '2002-01-01' WHERE (last_name LIKE 'p%') OR (first_name LIKE 'p%');
26 -- Below to get the exact 31566 rows that were updated if your limit is set to 1000 rows automatically in workbench
27 -- then it will only show the 1000 :)
28 -- NOTE when tested on Workbench gives Error Code 1175 which is a "safe update mode"
29 -- but on the command prompt it will work as proven by screenshots that were under the code to avoid confusion what command does what
30 -- and I wanted to test on how to better use both AND and OR to get the exact amount of results that were updated
31 • SELECT first_name, last_name, hire_date FROM employees WHERE hire_date = '2002-01-01' AND (last_name LIKE 'p%') OR (first_name LIKE 'p%');
32
33 -- 7. Delete all employees who have an emp_no less than 10000
34 • DELETE FROM employees WHERE emp_no < 10000;
35
36 -- 8. Delete all employees who have an emp_no of 10048, 10099, 10234, and 20089.
37 • DELETE FROM employees WHERE emp_no IN (10048, 10099, 10234, 20089);
38
```

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

(To try to avoid any confusion I put the results under the question due to using the command prompt)

URL to GitHub Repository:

<https://github.com/JoleneMel/Week1Employee>