

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

```
SELECT * FROM employees WHERE birth_date < '1965-01-01';
```

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

```
SELECT * FROM employees WHERE gender = 'F' AND hire_date > '2010';
```

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

```
00027 rows in set (mysql> SELECT * FROM employees WHERE gender = 'F' AND hire_date > '1990-01-01';
```

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

```
mysql> INSERT INTO employees VALUES (100,'a','b','c','d','e'),(101,'f','g','h','i','j'),(102,'k','l','m','n','o');
ERROR 1292 (22007): Incorrect date value: 'a' for column 'birth_date' at row 1
mysql> INSERT INTO employees VALUES (100,'1990-01-01','b','c','M','2018-01-01'),(101,'1991-01-01','g','h','F','2019-01-01'),(
102,'1992-01-01','l','m','F','2020-01-01');
Query OK, 3 rows affected (0.02 sec)
Records: 3 Duplicates: 0 Warnings: 0
```

```
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
```

```
mysql> UPDATE employees SET hire_date = '2002-01-01' WHERE first_name LIKE '%P' OR last_name LIKE '&P';
Query OK, 2651 rows affected (0.27 sec)
Rows matched: 2651  Changed: 2651  Warnings: 0
```

```
mysql> DELETE FROM employees WHERE emp_no < 10000;
Query OK, 3 rows affected (0.01 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;
Query OK, 1 row affected (0.01 sec)
```

```
mysql> DELETE FROM employees WHERE emp_no = 10234;
Query OK, 1 row affected (0.01 sec)
```

```
mysql> DELETE FROM employees WHERE emp_no = 20089;
Query OK, 1 row affected (0.01 sec)
```

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

1:

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

2:

emp_no	birth_date	first_name	last_name	gender	hire_date
101	1991-01-01	g	h	F	2019-01-01
102	1992-01-01	l	m	F	2020-01-01
10011	1953-11-07	Mary	Sluis	F	1990-01-22
10017	1958-07-06	Cristinel	Bouloucos	F	1993-08-03
10024	1958-09-05	Suzette	Petty	F	1997-05-19
10032	1960-08-09	Jeong	Reistad	F	1990-06-20
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

3:

10220	1958-05-25	Kish	Fasbender	F	1992-06-25
10244	1961-10-24	Foong	Flasterstein	M	1985-12-23
10327	1954-04-01	Roded	Facello	M	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	1987-07-23
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	Otmar	Feinberg	M	1987-04-30
10696	1952-03-23	Unal	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	Foot	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	Tadahiro	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
11316	1963-11-02	Ult	Farrar	F	1997-07-18
11321	1959-06-25	Heping	Fontan	M	1995-03-18
11328	1958-10-13	Xiong	Ferriere	M	1986-08-08
11331	1959-10-15	Kasturi	Fraisse	F	1987-03-03

50 rows in set (0.00 sec)

4:

emp_no	birth_date	first_name	last_name	gender	hire_date
100	1990-01-01	b	c	M	2018-01-01
101	1991-01-01	g	h	F	2019-01-01
102	1992-01-01	l	m	F	2020-01-01

3 rows in set (0.00 sec)

5:

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	Petty	F	1997-05-19

7:

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

8:

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

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

```
mysql> SELECT * FROM employees WHERE emp_no = 10234;  
Empty set (0.00 sec)
```

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

URL to GitHub Repository: