

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. Their 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 and Query Result;

Employees Before 1965

```
Command Prompt - mysql -u root -p
20 rows in set (0.00 sec)

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 | 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 |
+-----+-----+-----+-----+-----+-----+
20 rows in set (0.00 sec)

mysql>
```

Employees that are Female and Hired After 90

```
Command Prompt - mysql -u root -p
20 rows in set (0.00 sec)

mysql> SELECT * FROM employees WHERE gender='f' AND hire_date > '1990-01-01' LIMIT 20;
+-----+-----+-----+-----+-----+-----+
| emp_no | birth_date | first_name | last_name | gender | hire_date |
+-----+-----+-----+-----+-----+-----+
| 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 | Pettey | F | 1997-05-19 |
| 10032 | 1960-08-09 | Jeong | Reistad | F | 1990-06-20 |
| 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 |
| 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 |
| 10074 | 1955-08-28 | Mokhtar | Bernatsky | F | 1990-08-13 |
| 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 |
| 10117 | 1961-10-24 | Kiyotoshi | Blokdiik | F | 1990-05-28 |
| 10118 | 1957-03-29 | Zhonghui | Zyda | F | 1990-09-13 |
| 10120 | 1960-03-26 | Armond | Fairtlough | F | 1996-07-06 |
+-----+-----+-----+-----+-----+-----+
20 rows in set (0.00 sec)

mysql>
```

Employees whose First and Last name start with an F

Command Prompt - mysql -u root -p

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

emp_no	birth_date	first_name	last_name	gender	hire_date
10001	1953-09-02	Georgi	Facello	M	1986-06-26
10022	1952-07-08	Shahaf	Famili	M	1995-08-22
10086	1962-11-19	Somnath	Footo	M	1990-02-16
10089	1963-03-21	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	Prenav	Furedi	M	1985-08-31
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	Otmaz	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	Chenyl	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	Flonavanti	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

Inserting Three Employees that Start with Emp No 100,101,102

Command Prompt - mysql -u root -p

```
mysql> INSERT INTO employees VALUES(101, '2002-01-01', 'James', 'Janglehiemer', 'M', '2012-01-01');
```

Query OK, 1 row affected (0.01 sec)

```
mysql> INSERT INTO employees VALUES(102, '2004-02-02', 'Ocatvius', 'Placencia', 'M', '2005-08-10');
```

Query OK, 1 row affected (0.01 sec)

```
mysql> SELECT * FROM employees LIMIT 50;
```

emp_no	birth_date	first_name	last_name	gender	hire_date
100	2001-01-01	Bob	Yeager	M	2022-01-01
101	2002-01-01	James	Janglehiemer	M	2012-01-01
102	2004-02-02	Ocatvius	Placencia	M	2005-08-10
10001	1953-09-02	Georgi	Facello	M	1986-06-26
10002	1964-06-02	Bezael	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	Kazuhiro	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

Changing name to Bob with ID 10023

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

10024 | 1958-09-05 | Suzette | Pettay | F | 1997-05-19 |
10025 | 1958-10-31 | Prasadram | Heyers | M | 1987-08-17 |
10026 | 1953-04-03 | Yongqiao | Berziss | M | 1995-03-20 |
10027 | 1962-07-10 | Divien | Reistad | F | 1989-07-07 |
10028 | 1963-11-26 | Dominick | 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 | Chappellet | 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 | Weiyl | Mariste | 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 |

50 rows in set (0.00 sec)

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> 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)

mysql>
```

Changing All employee hire dates whose first and last name start with P

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

mysql> UPDATE employees SET hire_date = '2002-01-01' AND last_name LIKE '%p' AND first_name = '%p';
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near
'='%p' AND first_name = '%p'' at line 1
mysql> UPDATE employees SET hire_date='2002-01-01' WHERE first_name AND last_name LIKE '%p';
ERROR 1292 (22007): Truncated incorrect DOUBLE value: 'Bob'
mysql> UPDATE employees SET hire_date='2002-01-01' WHERE first_name AND last_name LIKE '%p';
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near
'='%p' at line 1
mysql> UPDATE employees SET hire_date='2002-01-01' WHERE first_name AND last_name LIKE '%p';
ERROR 1292 (22007): Truncated incorrect DOUBLE value: 'Bob'
mysql> UPDATE employees SET hire_date='2002-01-01' WHERE first_name AND last_name = '%p';
Query OK, 0 rows affected (0.26 sec)
Rows matched: 0 Changed: 0 Warnings: 0

mysql> UPDATE employees SET hire_date='2002-01-01' WHERE first_name AND last_name = 'p';
Query OK, 0 rows affected (0.25 sec)
Rows matched: 0 Changed: 0 Warnings: 0

mysql> UPDATE employees SET hire_date='2002-01-01' WHERE first_name = '%p' AND last_name = '%p';
Query OK, 0 rows affected (0.24 sec)
Rows matched: 0 Changed: 0 Warnings: 0

mysql> UPDATE employees SET hire_date='2002-01-01' WHERE first_name = 'p' AND last_name = 'p';
Query OK, 0 rows affected (0.26 sec)
Rows matched: 0 Changed: 0 Warnings: 0

mysql> UPDATE employees SET hire_date='2002-01-01' WHERE first_name AND last_name LIKE '%p';
ERROR 1292 (22007): Truncated incorrect DOUBLE value: 'Bob'
mysql> UPDATE employees SET hire_date='2002-01-01' WHERE first_name LIKE '%p' AND last_name LIKE '%p';
Query OK, 7 rows affected (0.28 sec)
Rows matched: 7 Changed: 7 Warnings: 0

mysql>
```

Deleting all IDs less that 10000

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

mysql> UPDATE employees SET hire_date = '2002-01-01' AND last_name LIKE '%p' AND first_name = '%p';
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near
'=%p' AND first_name = '%p'' at line 1
mysql> UPDATE employees SET hire_date='2002-01-01' WHERE first_name AND last_name LIKE '%p';
ERROR 1292 (22007): Truncated incorrect DOUBLE value: 'Bob'
mysql> UPDATE employees SET hire_date='2002-01-01' WHERE first_name AND last_name LIKE = '%p';
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near
'=%p' at line 1
mysql> UPDATE employees SET hire_date='2002-01-01' WHERE first_name AND last_name LIKE '%p';
ERROR 1292 (22007): Truncated incorrect DOUBLE value: 'Bob'
mysql> UPDATE employees SET hire_date='2002-01-01' WHERE first_name AND last_name = '%p';
Query OK, 0 rows affected (0.26 sec)
Rows matched: 0 Changed: 0 Warnings: 0

mysql> UPDATE employees SET hire_date='2002-01-01' WHERE first_name AND last_name = 'p';
Query OK, 0 rows affected (0.25 sec)
Rows matched: 0 Changed: 0 Warnings: 0

mysql> UPDATE employees SET hire_date='2002-01-01' WHERE first_name = '%p' AND last_name = '%p';
Query OK, 0 rows affected (0.24 sec)
Rows matched: 0 Changed: 0 Warnings: 0

mysql> UPDATE employees SET hire_date='2002-01-01' WHERE first_name = 'p' AND last_name = 'p';
Query OK, 0 rows affected (0.26 sec)
Rows matched: 0 Changed: 0 Warnings: 0

mysql> UPDATE employees SET hire_date='2002-01-01' WHERE first_name AND last_name LIKE '%p';
ERROR 1292 (22007): Truncated incorrect DOUBLE value: 'Bob'
mysql> UPDATE employees SET hire_date='2002-01-01' WHERE first_name LIKE '%p' AND last_name LIKE '%p';
Query OK, 7 rows affected (0.28 sec)
Rows matched: 7 Changed: 7 Warnings: 0

mysql> DELETE employees WHERE emp_no <10000;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near
'WHERE emp_no <10000' at line 1
mysql> DELETE FROM employees WHERE emp_no < 10000;
Query OK, 3 rows affected (0.03 sec)

mysql>
```

Deleting ID no 10048, 10099, 10234, and 20089

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

+-----+-----+-----+-----+-----+-----+
| emp_no | birth_date | first_name | last_name | gender | hire_date |
+-----+-----+-----+-----+-----+-----+
| 10099 | 1956-05-25 | Valter | Sullins | F | 1988-10-18 |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 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)

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

mysql> SELECT * FROM employees WHERE emp_no=10234;
+-----+-----+-----+-----+-----+-----+
| emp_no | birth_date | first_name | last_name | gender | hire_date |
+-----+-----+-----+-----+-----+-----+
| 10234 | 1961-01-18 | Arunachalam | Bakhtari | M | 1990-11-19 |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

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

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

mysql>
```

URL to GitHub Repository: <https://github.com/Starssk1ttles/Week7SQL>