

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. There 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.

URL to GitHub Repository:

<https://github.com/ladymanj/Week7CodingAssignment.git>

Screenshots of Queries:

Screenshot from .sql file:

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

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

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

INSERT INTO employees VALUES(100, '1922-03-21', 'Old', 'Guy', 'M', '1999-02-17'),
(101, '1999-05-06', 'Young', 'Gal', 'F', '2021-01-05'),
(102, '1969-08-28', 'Jack', 'Black', 'M', '2002-08-28');

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

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

DELETE FROM employees WHERE emp_no < 10000;

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

Screenshots from CMD:

1. `mysql> SELECT * FROM employees WHERE birth_date < '1965-01-01' LIMIT 100;`

// NOTE FOR ABOVE: I added the LIMIT keyword due to the size of the query result

2. `mysql> SELECT * FROM employees WHERE gender = 'F' AND hire_date > '1990-12-31' LIMIT 100;`

// NOTE FOR ABOVE: I added the LIMIT keyword due to the size of the query result

3. `mysql> SELECT first_name, last_name FROM employees WHERE last_name LIKE 'f%' LIMIT 50;`
`mysql> INSERT INTO employees VALUES(100, '1922-03-21', 'Old', 'Guy', 'M', '1999-02-17'),`
`-> (101, '1999-05-06', 'Young', 'Gal', 'F', '2021-01-05'),`
`-> (102, '1969-08-28', 'Jack', 'Black', 'M', '2002-08-28');`

4. `mysql> UPDATE employees SET first_name = 'Bob' WHERE emp_no = 10023;`

5. `mysql> UPDATE employees SET hire_date = '2002-01-01' WHERE first_name LIKE 'p%' OR last_name LIKE 'p%';`

6. `mysql> DELETE FROM employees WHERE emp_no < 10000;`

7. `mysql> DELETE FROM employees WHERE emp_no IN(10048, 10099, 10234, 20089);`

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

10081	1960-12-17	Zhongwei	Rosen	M	1986-10-30
10082	1963-09-09	Parviz	Lortz	M	1990-01-03
10083	1959-07-23	Vishv	Zockler	M	1987-03-31
10084	1960-05-25	Tuval	Kalloufi	M	1995-12-15
10085	1962-11-07	Kenroku	Malabarba	M	1994-04-09
10086	1962-11-19	Somnath	Foote	M	1990-02-16
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
10090	1961-05-30	Kendra	Hofting	M	1986-03-14
10091	1955-10-04	Amabile	Gomatam	M	1992-11-18
10092	1964-10-18	Valdiodio	Niizuma	F	1989-09-22
10093	1964-06-11	Sailaja	Desikan	M	1996-11-05
10094	1957-05-25	Arumugam	Ossenbruggen	F	1987-04-18
10096	1954-09-16	Jayson	Mandell	M	1990-01-14
10097	1952-02-27	Remzi	Waschkowski	M	1990-09-15
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

1. 100 rows in set (0.00 sec)

// NOTE FOR ABOVE: I added the LIMIT keyword due to the size of the query result

10630	1954-08-10	Bezalel	Katzenelson	F	1993-06-26
10635	1960-10-29	Toney	Angiulli	F	1991-09-22
10636	1955-08-25	Saeko	Porotnikoff	F	1994-11-16
10658	1956-11-21	Junsik	Rijckaert	F	1994-04-29
10659	1956-12-09	Dinah	Shackel	F	1991-09-20
10669	1956-05-30	Yurij	Iisaka	F	1995-06-09
10675	1960-03-26	Ymte	Waschkowski	F	1991-11-05
10677	1963-02-20	Alejandra	Perng	F	1996-10-07
10683	1952-06-18	Guiseppe	Stranks	F	1993-09-07
10684	1956-01-23	Aimee	Tokunaga	F	1999-10-28
10703	1958-06-13	Giri	Baumann	F	1996-05-12
10711	1963-06-20	Arvind	DuBourdieu	F	1991-06-21
10712	1952-04-12	Uma	Koprowski	F	1994-08-18
10719	1959-09-26	Guenter	Karunanithi	F	1995-09-05
10721	1964-07-12	Bernd	Redmiles	F	1995-03-17
10723	1964-01-14	Eckart	Harnett	F	1993-05-26
10727	1959-06-16	Saeed	Kitai	F	1991-01-08
10732	1962-04-22	Morris	Andreotta	F	1991-03-10
10733	1962-04-06	Sangeeta	Rodham	F	1996-02-20
10736	1962-07-09	Gurbir	Hellwagner	F	1991-09-26

2. 100 rows in set (0.00 sec)

// NOTE FOR ABOVE: I added the LIMIT keyword due to the size of the query result

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	Fraisse

50 rows in set (0.00 sec)

3.

Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0

mysql> SELECT * FROM employees WHERE emp_no IN(100, 101, 102);

emp_no	birth_date	first_name	last_name	gender	hire_date
100	1922-03-21	Old	Guy	M	1999-02-17
101	1999-05-06	Young	Gal	F	2021-01-05
102	1969-08-28	Jack	Black	M	2002-08-28

3 rows in set (0.00 sec)

4.

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)

5.

```
Query OK, 31566 rows affected (0.61 sec)
Rows matched: 31566   Changed: 31566   Warnings: 0
```

```
6. mysql> SELECT * FROM employees WHERE first_name LIKE 'p%' OR last_name LIKE 'p%' LIMIT 100;
```

10781	1958-09-19	Patricio	Leuchs	M	2002-01-01
10782	1952-09-18	Kish	Perna	F	2002-01-01
10786	1964-05-19	Patricia	dAstous	M	2002-01-01
10815	1960-11-12	Renny	Pramanik	M	2002-01-01
10819	1957-02-19	Pascal	Sooriamurthi	M	2002-01-01
10820	1956-11-12	Baocai	Pena	F	2002-01-01
10822	1956-08-02	Masaru	Passino	F	2002-01-01
10841	1961-10-14	Pranav	Lieberherr	M	2002-01-01
10851	1959-11-15	Piyawadee	Copas	M	2002-01-01
10856	1964-03-13	Sreenivas	Peck	F	2002-01-01
10876	1955-08-05	Vincent	Papastamatiou	F	2002-01-01
10895	1952-03-21	Vishwani	Petersohn	M	2002-01-01
10900	1955-07-18	Ferdinand	Prenel	F	2002-01-01
10902	1964-05-09	Inderjeet	Perly	M	2002-01-01
10914	1956-04-26	Mizuhito	Prochazka	M	2002-01-01
10932	1955-11-19	Avishai	Picci	F	2002-01-01
10956	1955-02-02	Arno	Picel	M	2002-01-01
10966	1962-07-04	Danel	Pardalos	M	2002-01-01
10969	1954-09-05	Premal	Noriega	M	2002-01-01
10974	1952-03-07	Muneo	Papsdorf	M	2002-01-01

100 rows in set (0.00 sec)

```
// NOTE FOR ABOVE: I added the LIMIT keyword due to the size of the query result
```

```
Query OK, 3 rows affected (0.01 sec)
```

```
mysql> SELECT * FROM employees WHERE emp_no < 10000;
Empty set (0.00 sec)
```

```
7. Empty set (0.00 sec)
Query OK, 4 rows affected (0.01 sec)
```

```
Query OK, 4 rows affected (0.01 sec)

mysql> SELECT * FROM employees WHERE emp_no IN(10048, 10099, 10234, 20089);
Empty set (0.00 sec)
```

8. Empty set (0.00 sec)