

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.

Screenshots of Queries:

1.

```
2      -- 1. Show all employees who were born before 1965-01-01
3
4 •    SELECT * from employees where birth_date < "1965-01-01"
-
```
2.

```
6      -- 2. Show all employees who are female and were hired after 1990
7
8 •    SELECT * FROM employees WHERE gender = "F" AND hire_date > "1999-12-31";
```
3.

```
10     -- 3. Show the first and last name of the first 50 employees whose last name starts with F
11
12 •    SELECT first_name, last_name FROM employees WHERE last_name LIKE 'F%' LIMIT 50;
```
4.

```
14     -- 4. Insert 3 new employees into the employees table. There emp_no should be 100, 101, and 102.
15     --   You can choose the rest of the data.
16 •    INSERT into employees VALUES (100, '1986-05-03', 'Tom', 'Thompson', 'M', '2006-10-21'),
17         (101, '1966-07-30', 'Barb', 'Baker', 'F', '1986-01-01'),
18         (102, '1996-05-03', 'Lance', 'Knight', 'M', '2016-11-11');
19 •    SELECT * FROM employees LIMIT 20;
```
5.

```
21     -- 5. Change the employee's first name to Bob for the employee with the emp_no of 10023.
22     --   SELECT * FROM employees WHERE emp_no = '10023';
23 •    UPDATE employees SET first_name = 'Bob' WHERE emp_no = '10023';
24 •    SELECT * FROM employees WHERE emp_no = '10023';
```
6.

```
26     -- 6. Change all employees hire dates to 2002-01-01 whose first or last names start with P.
27     --   SELECT * FROM employees WHERE first_name LIKE 'P%' OR last_name LIKE 'P%';
28 •    UPDATE employees SET hire_date = '2002-01-01' WHERE first_name LIKE 'P%' OR last_name LIKE 'P%';
29 •    SELECT * FROM employees WHERE first_name LIKE 'P%' OR last_name LIKE 'P%';
```
7.

```
31     -- 7. Delete all employees who have an emp_no less than 10000
32     --   SELECT * FROM employees WHERE emp_no <= 10001;
33 •    DELETE FROM employees WHERE emp_no < 10000;
34 •    SELECT * FROM employees WHERE emp_no <= 10001;
```
- 8.

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

	10182	1961-02-04	Moriyoshi	Merey	F	1990-09-02
	10183	1954-10-17	Mechthild	Bonifati	M	1996-08-11
	10184	1957-05-22	Mihalis	Lowrie	M	1987-10-29
	10185	1959-12-05	Duro	Sidhu	F	1986-03-01
	10186	1953-07-16	Shigehito	Kropatsch	M	1986-03-28
	10187	1961-05-26	Tommaso	Narwekar	F	1991-06-01
	10188	1956-07-13	Christ	Muchinsky	F	1987-08-27
▶	10189	1955-11-12	Khalid	Erva	M	1989-10-05
	10190	1964-12-11	Arve	Fairtlough	F	1986-06-23
	10191	1959-04-08	Zdislav	Nastansky	M	1986-04-10
	10192	1960-09-16	Mohua	Falck	M	1988-06-13
	10193	1960-06-29	Masaru	Cheshire	M	1991-07-28
	10194	1954-01-29	Josyula	Hofmeyr	F	1989-05-15
	10195	1963-11-13	Annemarie	Redmiles	M	1985-02-15
	10196	1954-01-27	Marc	Hellwagner	M	1994-11-16
	10197	1963-08-06	Kasidit	Krzyzano...	F	1993-11-22
	10198	1953-05-28	Pranav	Furedi	M	1985-08-31
	10199	1959-04-07	Kazuhisa	Ranta	M	1997-04-29
	10200	1961-12-31	Vidya	Awdeh	M	1985-10-16
	10201	1956-12-15	Idoia	Kavraki	F	1986-11-22
	10202	1956-01-05	Greger	Lichtner	M	1991-10-06
*	NULL	NULL	NULL	NULL	NULL	NULL

1. employees 4 ×

	emp_no	birth_date	first_name	last_name	gender	hire_date
▶	60134	1964-04-21	Seshu	Rathonyi	F	2000-01-02
	72329	1953-02-09	Randi	Luit	F	2000-01-02
	205048	1960-09-12	Ennio	Alblas	F	2000-01-06
	222965	1959-08-07	Volkmar	Perko	F	2000-01-13
	226633	1958-06-10	Xuejun	Benzmuller	F	2000-01-04
	422990	1953-04-09	Jaana	Verspoor	F	2000-01-11
	499553	1954-05-06	Hideyuki	Delgrande	F	2000-01-22
*	NULL	NULL	NULL	NULL	NULL	NULL

2.

	first_name	last_name		
▶	Georgi	Facello	Shim	Feldhoffer
	Shahaf	Famili	Ashish	Fortenbacher
	Somnath	Foote	Fan	Fairtlough
	Sudharsan	Flasterstein	Fen	Fiebach
	Armond	Fairtlough	Ramzi	Furudate
	Ewing	Foong	Oscal	Fasbender
	Sumali	Fargier	Morris	Famili
	Badri	Furudate	Aleksander	Fioravanti
	Arve	Fairtlough	Chiradeep	Furedi
	Mohua	Falck	Shin	Foote
	Pranav	Furedi	Deniz	Fontan
	Kish	Fasbender	Nathan	Flowers
	Foong	Flasterstein	Tse	Felcyn
	Roded	Facello	Tadahiro	Fordan
	Clyde	Fandrianto	Sahrah	Figueira
	Anneli	Frijda	Dayanand	Figueira
	Masoud	Fabrizio	Kwangjo	Fiebach
	Przemysla...	Falby	Gina	Falster
	Hisao	Famili	Bernice	Felcyn
	Lalit	Francisci	Sreenivas	Farrag
	Heejo	Frolund	Lillian	Fontet
	Otmar	Feinberg	Ult	Farrar
	Unal	Fendler	Heping	Fontan
	Yuchang	Francisci	Xiong	Ferriere
	Chenyi	Feinberg	Kasturi	Fraisse

3.

	emp_no	birth_date	first_name	last_name	gender	hire_date
▶	100	1986-05-03	Tom	Thompson	M	2006-10-21
	101	1966-07-30	Barb	Baker	F	1986-01-01
	102	1996-05-03	Lance	Knight	M	2016-11-11
	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
4. *	NULL	NULL	NULL	NULL	NULL	NULL

	emp_no	birth_date	first_name	last_name	gender	hire_date
▶	10023	1953-09-29	Bojan	Montemayor	F	1989-12-17
*	NULL	NULL	NULL	NULL	NULL	NULL

5. Before Update:

	emp_no	birth_date	first_name	last_name	gender	hire_date
▶	10023	1953-09-29	Bob	Montemayor	F	1989-12-17
*	NULL	NULL	NULL	NULL	NULL	NULL

After update:

	11913	1963-09-07	Gil	Pokrovskii	M	1985-08-17
	11918	1956-02-18	Mayuri	Pollacia	F	1987-03-19
	11925	1956-04-15	Feiyu	Pashtan	M	1996-06-02
	11959	1962-02-14	Duro	Pettis	M	1991-04-03
	11966	1960-10-22	Poornacha...	Rotem	F	1987-01-20

6. Before Update:

	11740	1962-05-21	Isaac	Pero	M	2002-01-01
	11749	1957-11-28	Masamitsu	Penttonen	M	2002-01-01
	11772	1954-06-19	Gaurav	Penz	F	2002-01-01
	11781	1964-11-29	Tua	Pluym	M	2002-01-01
	11803	1957-12-10	Arnd	Perko	F	2002-01-01
	11821	1954-10-18	Mary	Piazza	F	2002-01-01
	11828	1958-06-15	Mikhail	Paciorek	F	2002-01-01
	11829	1952-08-01	Chaosheng	Pettis	F	2002-01-01
	11842	1954-03-31	Moto	Piazza	M	2002-01-01
	11846	1954-04-24	Fai	Perly	F	2002-01-01
	11863	1962-07-03	Stella	Peng	M	2002-01-01
	11864	1952-06-14	Pradeep	Kriebel	F	2002-01-01
	11884	1963-04-10	Patricia	Moehrke	M	2002-01-01
	11898	1964-10-29	Jinya	Piveteau	M	2002-01-01
	11901	1962-09-05	Baoqiu	Plumb	M	2002-01-01
	11913	1963-09-07	Gil	Pokrovskii	M	2002-01-01
	11918	1956-02-18	Mayuri	Pollacia	F	2002-01-01
	11925	1956-04-15	Feiyu	Pashtan	M	2002-01-01
	11959	1962-02-14	Duro	Pettis	M	2002-01-01
	11966	1960-10-22	Poornacha...	Rotem	F	2002-01-01

After Update:

	emp_no	birth_date	first_name	last_name	gender	hire_date
▶	100	1986-05-03	Tom	Thompson	M	2006-10-21
	101	1966-07-30	Barb	Baker	F	1986-01-01
	102	1996-05-03	Lance	Knight	M	2016-11-11
	10001	1953-09-02	Georgi	Facello	M	1986-06-26
*	NULL	NULL	NULL	NULL	NULL	NULL

7. Before Delete:

	emp_no	birth_date	first_name	last_name	gender	hire_date
▶	10001	1953-09-02	Georgi	Facello	M	1986-06-26
*	NULL	NULL	NULL	NULL	NULL	NULL

After Delete:

8. Before Delete:

	emp_no	birth_date	first_name	last_name	gender	hire_date
▶	10048	1963-07-11	Florian	Syrotiuk	M	1985-02-24
	10099	1956-05-25	Valter	Sullins	F	1988-10-18
	10234	1961-01-18	Arunachalam	Bakhtari	M	1990-11-19
	20089	1953-11-29	Unal	Merli	M	1991-12-14
*	NULL	NULL	NULL	NULL	NULL	NULL

After Delete:

	emp_no	birth_date	first_name	last_name	gender	hire_date
*	NULL	NULL	NULL	NULL	NULL	NULL

	emp_no	birth_date	first_name	last_name	gender	hire_date
▶	10047	1952-06-29	Zvonko	Nyanchama	M	1989-03-31
	10049	1961-04-24	Basil	Tramer	F	1992-05-04
*	NULL	NULL	NULL	NULL	NULL	NULL

URL to GitHub Repository:

<https://github.com/KT-Trailblazer/WK7-MySQL>