

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

Query 1

```
-- 1. Show all employees who were born before 1965-01-01
SELECT * FROM employees WHERE birth_date < '1965-01-01';
```

Result Grid

| | 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 | 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 |

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

```
5 • SELECT * FROM (  
6     SELECT *  
7     FROM employees  
8     WHERE gender = 'F'  
9     AND hire_date >= ('1990-01-01')  
10    ORDER BY emp_no DESC LIMIT 20  
11 ) sub  
12 ORDER BY emp_no ASC;
```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

| | emp_no | birth_date | first_name | last_name | gender | hire_date |
|---|--------|------------|-------------|-------------|--------|------------|
| ▶ | 499894 | 1957-04-25 | Maja | Lamba | F | 1990-06-10 |
| | 499902 | 1952-07-31 | Aloke | Wuwongse | F | 1991-06-18 |
| | 499910 | 1957-11-07 | Doowon | Versino | F | 1991-12-22 |
| | 499912 | 1956-06-19 | Parke | Pell | F | 1993-10-23 |
| | 499914 | 1952-03-04 | Khoa | Keirse | F | 1990-12-04 |
| | 499916 | 1962-01-09 | Florina | Cusworth | F | 1997-05-18 |
| | 499923 | 1964-12-21 | Sergi | Melton | F | 1993-04-08 |
| | 499932 | 1962-05-19 | Shigeaki | Narlikar | F | 1990-09-27 |
| | 499933 | 1957-10-21 | Chianti | Riesenhuber | F | 1993-05-28 |
| | 499934 | 1957-02-19 | Tonia | Butner | F | 1991-01-02 |
| | 499938 | 1960-06-30 | JiYoung | Binding | F | 1993-04-18 |
| | 499941 | 1956-10-16 | Udaiprakash | Hockney | F | 1994-02-04 |
| | 499942 | 1963-01-10 | Feiyu | Sanella | F | 1997-02-10 |
| | 499950 | 1964-07-15 | Weidon | Gente | F | 1991-06-05 |
| | 499956 | 1959-01-08 | Zhonghua | Crooks | F | 1994-10-12 |
| | 499977 | 1956-06-05 | Martial | Weisert | F | 1996-09-17 |
| | 499981 | 1955-01-02 | Yunming | Mitina | F | 1991-03-07 |
| | 499987 | 1961-09-05 | Rimli | Dusink | F | 1998-09-20 |
| | 499994 | 1952-02-26 | Navin | Argence | F | 1990-04-24 |
| | 499995 | 1958-09-24 | Dekang | Lichtner | F | 1993-01-12 |

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

```
13  
14 • SELECT first_name, last_name  
15 FROM employees  
16 WHERE last_name LIKE 'F%'  
17 LIMIT 50;
```

| Result Grid | | | Filter Rows: |
|-------------|--------------|--------------|--------------|
| | first_name | last_name | |
| ▶ | Georgi | Facello | |
| | Shahaf | Famili | |
| | Somnath | Foote | |
| | Sudharsan | Flasterstein | |
| | Armond | Fairtough | |
| | Ewing | Foong | |
| | Sumali | Fargier | |
| | Badri | Furudate | |
| | Arve | Fairtough | |
| | Mohua | Falck | |
| | Pranav | Furedi | |
| | Kish | Fasbender | |
| | Foong | Flasterstein | |
| | Roded | Facello | |
| | Clyde | Fandrianto | |
| | Anneli | Frijda | |
| | Masoud | Fabrizio | |
| | Przemysla... | 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 |

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.

```

19 • INSERT INTO employees (emp_no, birth_date, first_name, last_name, gender, hire_date)
20   VALUES (100, '2000-01-01', 'Micah', 'Romero', 'F', '2020-01-02');
21 • INSERT INTO employees (emp_no, birth_date, first_name, last_name, gender, hire_date)
22   VALUES (101, '2001-01-01', 'Kyle', 'Stevenson', 'M', '2020-01-03');
23 • INSERT INTO employees (emp_no, birth_date, first_name, last_name, gender, hire_date)
24   VALUES (102, '2002-01-01', 'Rayan', 'Williams', 'M', '2020-01-04');
25
26 • SELECT *
27   FROM employees
28  WHERE emp_no = 100 OR emp_no = 101 OR emp_no = 102;
29
30

```

| <div> <div>Result Grid</div> <div> <div>Filter Rows:</div> <div>Edit:</div> <div>Export/Import:</div> <div>Wrap Cell Content:</div> </div> </div> | | | | | | |
|---|--------|------------|------------|-----------|--------|------------|
| | emp_no | birth_date | first_name | last_name | gender | hire_date |
| ▶ | 100 | 2000-01-01 | Micah | Romero | F | 2020-01-02 |
| | 101 | 2001-01-01 | Kyle | Stevenson | M | 2020-01-03 |
| | 102 | 2002-01-01 | Rayan | Williams | M | 2020-01-04 |
| * | NULL | NULL | NULL | NULL | NULL | NULL |

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

```
30 • UPDATE employees
31   SET first_name = 'Bob'
32   WHERE emp_no = 10023;
33
34 • SELECT *
35   FROM employees
36   WHERE emp_no = 10023;
```

| Result Grid | | | | | | |
|-----------------------------------|--------|------------|------------|------------|--------|------------|
| Filter Rows: <input type="text"/> | | | | | | |
| Edit: Export | | | | | | |
| | 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 |

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

```
-- disable first the sql safe update mode and set to 0 to allow update on sql
SET SQL_SAFE_UPDATES = 0;

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

SELECT * FROM (
  SELECT *
  FROM employees
  WHERE last_name LIKE 'P%' OR first_name LIKE 'P%'
  ORDER BY emp_no DESC LIMIT 20
) sub
ORDER BY emp_no ASC;
```

| Result Grid | | | | | | |
|-------------|--------|--------------|------------|--------------|--------|--------------------|
| | | Filter Rows: | | Export: | | Wrap Cell Content: |
| | emp_no | birth_date | first_name | last_name | gender | hire_date |
| ▶ | 499808 | 1955-04-05 | Paris | Deyuan | F | 2002-01-01 |
| | 499817 | 1953-08-03 | Lihong | Pusterhofer | M | 2002-01-01 |
| | 499838 | 1959-09-07 | Annemarie | Perozt | M | 2002-01-01 |
| | 499849 | 1954-10-12 | Moriyoshi | Pusterhofer | F | 2002-01-01 |
| | 499859 | 1962-05-20 | Huican | Passafiume | F | 2002-01-01 |
| | 499870 | 1955-03-14 | Kayoko | Perozt | M | 2002-01-01 |
| | 499873 | 1960-12-10 | Kasidit | Picel | F | 2002-01-01 |
| | 499903 | 1959-06-30 | Premal | Passino | M | 2002-01-01 |
| | 499912 | 1956-06-19 | Parke | Pell | F | 2002-01-01 |
| | 499926 | 1956-10-15 | Youpyo | Perflyeva | F | 2002-01-01 |
| | 499929 | 1959-11-03 | Phillip | Schnabel | M | 2002-01-01 |
| | 499935 | 1963-12-18 | Ymte | Perelgut | M | 2002-01-01 |
| | 499937 | 1955-07-28 | Pantung | Litzler | F | 2002-01-01 |
| | 499948 | 1953-05-24 | Cordelia | Paludetto | M | 2002-01-01 |
| | 499953 | 1960-09-04 | Leszek | Pulkowski | M | 2002-01-01 |
| | 499974 | 1956-09-10 | Shuichi | Piazza | F | 2002-01-01 |
| | 499979 | 1962-10-29 | Prasadram | Waleschko... | M | 2002-01-01 |
| | 499982 | 1954-08-25 | Mohammed | Pleszkun | M | 2002-01-01 |
| | 499991 | 1962-02-26 | Pohua | Sichman | F | 2002-01-01 |
| | 499998 | 1956-09-05 | Patricia | Breugel | M | 2002-01-01 |

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

```

52
53 • DELETE FROM employees
54   WHERE emp_no < 10000;
55
56 • SELECT *
57   FROM employees
58   WHERE emp_no < 10000;

```

| Result Grid | | | | | | |
|-------------|--------|--------------|------------|-----------|--------|----------------|
| | | Filter Rows: | | Edit: | | Export/Import: |
| | emp_no | birth_date | first_name | last_name | gender | hire_date |
| ▶ | NULL | NULL | NULL | NULL | NULL | NULL |

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


```
--
60 • DELETE FROM employees
61 WHERE emp_no = 10048;
62
63 • DELETE FROM employees
64 WHERE emp_no = 10099;
65
66 • DELETE FROM employees
67 WHERE emp_no = 10234;
68
69 • DELETE FROM employees
70 WHERE emp_no = 20089;
71
72 • SELECT *
73 FROM employees
74 WHERE emp_no = 10048 OR emp_no = 10099 OR emp_no = 10234 OR emp_no = 20089;
```

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

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

<https://github.com/ailimutan/week7-mysqlassignment>