

# Relational Databases with MySQL Week 1 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.

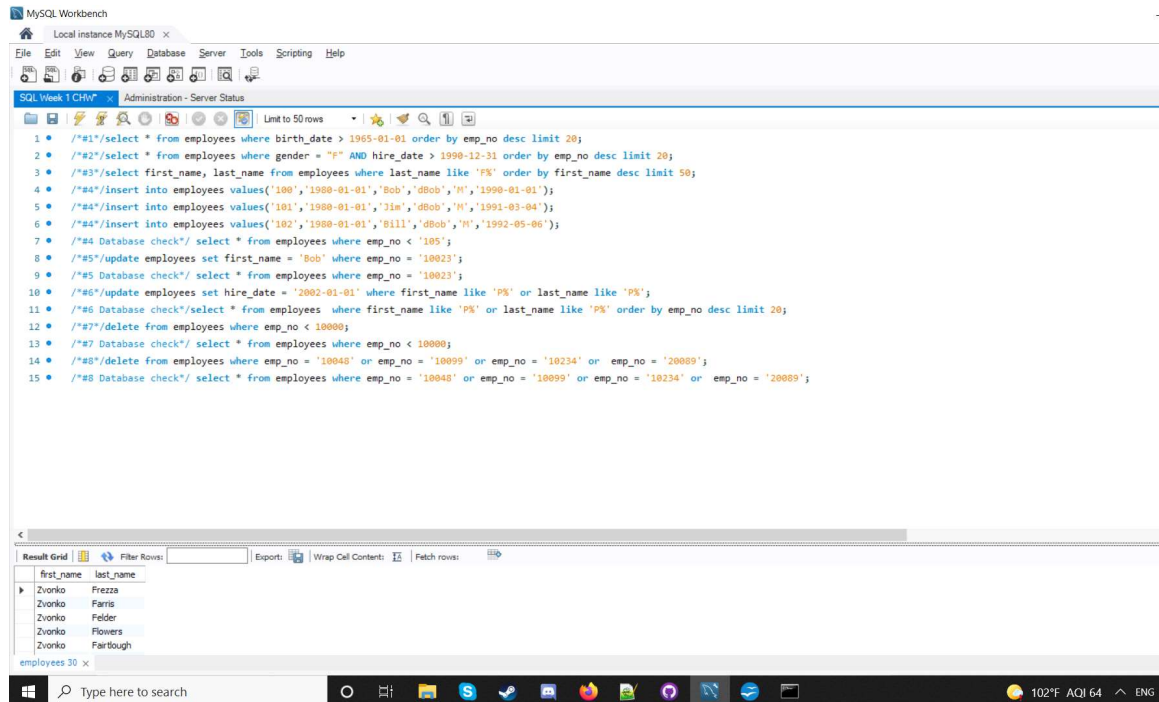
## Coding Steps:

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:



The screenshot shows the MySQL Workbench interface. The top toolbar includes icons for File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. The main window displays a SQL script with 15 lines of code. The script includes several SELECT, INSERT, and UPDATE statements, as well as database check commands. The bottom panel shows the 'Result Grid' with a table containing employee data. The table has two columns: 'first\_name' and 'last\_name'. The data rows are: Zvonko Frezza, Zvonko Farris, Zvonko Felder, Zvonko Flowers, and Zvonko Fairbough.

```
1 /*#1*/select * from employees where birth_date > 1965-01-01 order by emp_no desc limit 20;
2 /*#2*/select * from employees where gender = "F" AND hire_date > 1990-12-31 order by emp_no desc limit 20;
3 /*#3*/select first_name, last_name from employees where last_name like 'FK' order by first_name desc limit 50;
4 /*#4*/insert into employees values('100','1980-01-01','Bob','dBob','H','1990-01-01');
5 /*#4*/insert into employees values('101','1980-01-01','Jim','dBob','H','1991-03-04');
6 /*#4*/insert into employees values('102','1980-01-01','Bill','dBob','H','1992-05-06');
7 /*#4 Database check*/ select * from employees where emp_no < '105';
8 /*#5*/update employees set first_name = 'Bob' where emp_no = '10023';
9 /*#5 Database check*/ select * from employees where emp_no = '10023';
10 /*#6*/update employees set hire_date = '2002-01-01' where first_name like 'PK' or last_name like 'PK';
11 /*#6 Database check*/select * from employees where first_name like 'PK' or last_name like 'PK' order by emp_no desc limit 20;
12 /*#7*/delete from employees where emp_no < 10000;
13 /*#7 Database check*/ select * from employees where emp_no < 10000;
14 /*#8*/delete from employees where emp_no = '10048' or emp_no = '10099' or emp_no = '10234' or emp_no = '20089';
15 /*#8 Database check*/ select * from employees where emp_no = '10048' or emp_no = '10099' or emp_no = '10234' or emp_no = '20089';
```

first_name	last_name
Zvonko	Frezza
Zvonko	Farris
Zvonko	Felder
Zvonko	Flowers
Zvonko	Fairbough

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

The screenshot displays the MySQL Workbench interface. The top toolbar includes icons for File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. Below the toolbar, the 'SQL Week 1 CH01' tab is active, showing a series of SQL queries. The 'Result Grid' tab is selected, displaying the results of the last query. The results are shown in a table with columns: emp\_no, birth\_date, first\_name, last\_name, gender, and hire\_date. The table contains 25 rows of data, with the last 20 rows highlighted. The bottom status bar shows the current database as 'employees' with 25 rows selected. The Windows taskbar at the bottom indicates the system temperature is 102°F and the language is set to ENG.

```
1 /*#1*/select * from employees where birth_date > 1965-01-01 order by emp_no desc limit 20;
2 /*#2*/select * from employees where gender = "F" AND hire_date > 1990-12-31 order by emp_no desc limit 20;
3 /*#3*/select first_name, last_name from employees where last_name like 'FX' order by first_name limit 20;
4 /*#4*/insert into employees values('100','1980-01-01','Bob','dBob','M','1990-01-01');
5 /*#4*/insert into employees values('101','1980-01-01','Jim','dBob','M','1991-03-04');
6 /*#4*/insert into employees values('102','1980-01-01','Bill','dBob','M','1992-05-06');
7 /*#4 Database check*/ select * from employees where emp_no < '105';
8 /*#5*/update employees set first_name = 'Bob' where emp_no = '10023';
9 /*#5 Database check*/ select * from employees where emp_no = '10023';
```

emp_no	birth_date	first_name	last_name	gender	hire_date
499999	1958-05-01	Sachin	Tsukuda	M	1997-11-30
499998	1956-09-05	Patricia	Breugel	M	1993-10-13
499997	1961-08-03	Berhard	Lenart	M	1986-04-21
499996	1953-03-07	Zito	Baaz	M	1990-09-27
499995	1958-09-24	Dekang	Lichtner	F	1993-01-12
499994	1952-02-26	Navin	Argence	F	1990-04-24
499993	1963-06-04	DeForest	Mullanathan	M	1997-04-07
499992	1960-10-12	Slamak	Salverda	F	1987-05-10
499991	1962-02-26	Pohua	Schman	F	1989-01-12
499990	1963-11-03	Khaled	Kohling	M	1985-10-10
499989	1954-05-26	Keichiro	Lindqvist	M	1993-10-28
499988	1962-09-28	Bangqing	Keiser	F	1986-06-06
499987	1961-09-05	Rinli	Dusink	F	1990-09-20
499986	1952-07-22	Nathan	Ranta	F	1985-09-11
499985	1964-12-26	Gila	Lukaszewicz	M	1997-02-11
499984	1959-08-31	Kaijung	Rodham	M	1985-09-11
499983	1955-08-29	Uri	Juneja	F	1989-08-28
499982	1954-08-25	Mohammed	Pleszkun	M	1986-02-21
499981	1955-01-02	Yunning	Mitna	F	1991-03-07
499980	1959-06-28	Gino	Usery	M	1991-02-11

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

SQL Week 1 CH07 Administration - Server Status

Limit to 50 rows

```

1 /*#1*/select * from employees where birth_date > 1965-01-01 order by emp_no desc limit 20;
2 /*#2*/select * from employees where gender = "F" AND hire_date > 1990-12-31 order by emp_no desc limit 20;
3 /*#3*/select first_name, last_name from employees where last_name like 'FX' order by first_name limit 20;
4 /*#4*/insert into employees values('100','1980-01-01','Bob','dBob','H','1990-01-01');
5 /*#4*/insert into employees values('101','1980-01-01','Jim','dBob','H','1991-03-04');
6 /*#4*/insert into employees values('102','1980-01-01','Bill','dBob','H','1992-05-06');
7 /*#4 Database check*/ select * from employees where emp_no < '105';
8 /*#5*/update employees set first_name = 'Bob' where emp_no = '10023';
9 /*#5 Database check*/ select * from employees where emp_no = '10023';

```

Result Grid

emp_no	birth_date	first_name	last_name	gender	hire_date
499995	1958-09-24	Dekang	Lichtner	F	1993-01-12
499994	1952-02-26	Navin	Argence	F	1990-04-24
499992	1960-10-12	Siamak	Salverda	F	1987-05-10
499991	1962-02-26	Pohua	Schman	F	1989-01-12
499988	1962-09-28	Banggang	Kleier	F	1986-06-06
499987	1961-09-05	Rnli	Dusnik	F	1998-09-20
499986	1952-07-22	Nathan	Ranta	F	1985-08-11
499983	1955-08-29	Uri	Juneja	F	1989-08-28
499981	1955-01-02	Yunming	Mitna	F	1991-03-07
499977	1956-06-05	Marbal	Wesert	F	1996-09-17
499974	1956-09-10	Shuichi	Piazza	F	1989-09-16
499972	1957-07-25	Katsuo	Leuchs	F	1989-11-23
499966	1955-12-04	Mihoko	Crabtree	F	1985-06-13
499965	1961-12-07	Ronghao	Morrow	F	1985-05-26
499963	1962-03-14	Danny	Lenart	F	1989-08-07
499961	1962-10-02	Holgard	Nanard	F	1988-07-04
499960	1952-12-02	Gaetan	Veldwijk	F	1989-09-16
499958	1957-05-08	Srinidhi	Theuretz...	F	1989-12-17
499956	1959-01-08	Zhonghua	Crooks	F	1994-10-12
499950	1964-07-15	Weldon	Gente	F	1991-06-05

employees 26 x

Type here to search

102°F AQI 64 ENG

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

SQL Week 1 CH07 Administration - Server Status

Limit to 50 rows

```

1 /*#1*/select * from employees where birth_date > 1965-01-01 order by emp_no desc limit 20;
2 /*#2*/select * from employees where gender = "F" AND hire_date > 1990-12-31 order by emp_no desc limit 20;
3 /*#3*/select first_name, last_name from employees where last_name like 'FX' order by first_name desc limit 50;
4 /*#4*/insert into employees values('100','1980-01-01','Bob','dBob','H','1990-01-01');
5 /*#4*/insert into employees values('101','1980-01-01','Jim','dBob','H','1991-03-04');

```

Result Grid

first_name	last_name
Zvonko	Frezza
Zvonko	Farris
Zvonko	Felder
Zvonko	Flowers
Zvonko	Fairtough
Zvonko	Farris
Zvonko	Flowers
Zvonko	Felk
Zvonko	Figuera
Zvonko	Faebender
Zvonko	Fured
Zsolt	Foote
Zsolt	Flowers
Zsolt	Fairtough
Zsolt	Fetvedt
Zsolt	Froland
Zsolt	Farrow
Zsolt	Fontani
Zsolt	Facello
Zsolt	Futem
Zorica	Futem
Zorica	Farrar
Zorica	Fedgyas
Zorica	Fraase
Zorica	Fenber
Zorica	Flanders
Zorica	Fortenba...
Zonovan	Farrar

employees 31 x

Type here to search

102°F AQI 64 ENG

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

SQL Workbench Administration - Server Status

Limit to 50 rows

```
1 /*#1*/select * from employees where birth_date > 1965-01-01 order by emp_no desc limit 20;
2 /*#2*/select * from employees where gender = "F" AND hire_date > 1990-12-31 order by emp_no desc limit 20;
3 /*#3*/select first_name, last_name from employees where last_name like 'FX' order by first_name desc limit 50;
4 /*#4*/insert into employees values('100','1980-01-01','Bob','dBob','M','1990-01-01');
5 /*#4*/insert into employees values('101','1980-01-01','Jim','dBob','M','1991-03-04');
6 /*#4*/insert into employees values('102','1980-01-01','Bill','dBob','M','1992-05-06');
7 /*#4 Database check*/ select * from employees where emp_no < '105';
```

Result Grid | Filter Rows | Edit | Export/Import | Wrap Cell Contents

emp_no	birth_date	first_name	last_name	gender	hire_date
100	1980-01-01	Bob	dBob	M	1990-01-01
101	1980-01-01	Jim	dBob	M	1991-03-04
102	1980-01-01	Bill	dBob	M	1992-05-06

employees 32 x

Type here to search

102°F AQI 64 ENG

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

SQL Week 1 CH2 Administration - Server Status

Limit to 50 rows

```

3 /*#3*/select first_name, last_name from employees where last_name like 'FX' order by first_name desc limit 50;
4 /*#4*/insert into employees values('100','1980-01-01','Bob','dBob','M','1990-01-01');
5 /*#4*/insert into employees values('101','1980-01-01','Jim','dBob','M','1991-03-04');
6 /*#4*/insert into employees values('102','1980-01-01','Bill','dBob','M','1992-05-06');
7 /*#4 Database check*/ select * from employees where emp_no < '105';
8 /*#5*/update employees set first_name = 'Bob' where emp_no = '10023';
9 /*#5 Database check*/ select * from employees where emp_no = '10023';

```

Result Grid

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

employees 33 x

Type here to search

102°F AQI 64 ENG

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

SQL Week 1 CH2 Administration - Server Status

Limit to 50 rows

```

9 /*#5 Database check*/ select * from employees where emp_no = '10023';
10 /*#6*/update employees set hire_date = '2002-01-01' where first_name like 'PX' or last_name like 'PX';
11 /*#6 Database check*/select * from employees where first_name like 'PX' or last_name like 'PX' order by emp_no desc limit 20;
12 /*#7*/delete from employees where emp_no < 10000;
13 /*#7 Database check*/ select * from employees where emp_no < 10000;
14 /*#8*/delete from employees where emp_no = '10048' or emp_no = '10099' or emp_no = '10234' or emp_no = '20009';
15 /*#8 Database check*/ select * from employees where emp_no = '10048' or emp_no = '10099' or emp_no = '10234' or emp_no = '20009';

```

Result Grid

emp_no	birth_date	first_name	last_name	gender	hire_date
499998	1956-09-05	Patricia	Breugel	M	2002-01-01
499991	1962-02-26	Pohua	Sidman	F	2002-01-01
499982	1954-08-25	Mohammed	Pleszkun	M	2002-01-01
499979	1962-10-29	Prasadram	Waleschowski	M	2002-01-01
499974	1956-09-10	Shuichi	Piazza	F	2002-01-01
499953	1960-09-04	Leszek	Pukowski	M	2002-01-01
499948	1953-05-24	Cordelia	Paludetto	M	2002-01-01
499937	1955-07-28	Pantlung	Litzler	F	2002-01-01
499935	1963-12-18	Ymte	Peregut	M	2002-01-01
499929	1959-11-03	Phillip	Schnabel	M	2002-01-01
499926	1956-10-15	Youpyo	Perflyeva	F	2002-01-01
499912	1956-06-19	Parke	Pell	F	2002-01-01
499903	1959-06-30	Prenal	Passino	M	2002-01-01
499873	1960-12-10	Kasidi	Picel	F	2002-01-01
499870	1955-03-14	Kayoko	Peroz	M	2002-01-01
499859	1962-05-20	Huican	Passafume	F	2002-01-01
499849	1954-10-12	Moriyoshi	Pusterhofer	F	2002-01-01
499838	1959-09-07	Annenarie	Peroz	M	2002-01-01
499817	1953-08-03	Lihong	Pusterhofer	M	2002-01-01
499808	1955-04-05	Paris	Deyuan	F	2002-01-01

employees 34 x

Type here to search

102°F AQI 64 ENG

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

SQL Week 1 CH4r Administration - Server Status

Limit to 50 rows

```

7 * /*#4 Database check*/ select * from employees where emp_no < '105';
8 * /*#5*/update employees set first_name = 'Bob' where emp_no = '10023';
9 * /*#5 Database check*/ select * from employees where emp_no = '10023';
10 * /*#6*/update employees set hire_date = '2002-01-01' where first_name like 'PK' or last_name like 'PK';
11 * /*#6 Database check*/select * from employees where first_name like 'PK' or last_name like 'PK' order by emp_no desc limit 20;
12 * /*#7*/delete from employees where emp_no < 10000;
13 * /*#7 Database check*/ select * from employees where emp_no < 10000;
14 * /*#8*/delete from employees where emp_no = '10048' or emp_no = '10099' or emp_no = '10234' or emp_no = '20089';

```

Result Grid

emp_no	birth_date	first_name	last_name	gender	hire_date
10000	1980-01-01	John	Deere	Male	1980-01-01

employees 35 x

Type here to search

102°F AQI 64 ENG

MySQL Workbench

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

SQL Week 1 CH4r Administration - Server Status

Limit to 50 rows

```

9 * /*#5 Database check*/ select * from employees where emp_no = '10023';
10 * /*#6*/update employees set hire_date = '2002-01-01' where first_name like 'PK' or last_name like 'PK';
11 * /*#6 Database check*/select * from employees where first_name like 'PK' or last_name like 'PK' order by emp_no desc limit 20;
12 * /*#7*/delete from employees where emp_no < 10000;
13 * /*#7 Database check*/ select * from employees where emp_no < 10000;
14 * /*#8*/delete from employees where emp_no = '10048' or emp_no = '10099' or emp_no = '10234' or emp_no = '20089';
15 * /*#8 Database check*/ select * from employees where emp_no = '10048' or emp_no = '10099' or emp_no = '10234' or emp_no = '20089';

```

Result Grid

emp_no	birth_date	first_name	last_name	gender	hire_date
10000	1980-01-01	John	Deere	Male	1980-01-01

employees 36 x

Type here to search

102°F AQI 64 ENG

**URL to GitHub Repository:**

**<https://github.com/JDu8Du8/CSN-BE-Week7-CHW>**