

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:

The screenshot displays a database query tool interface. At the top, there are tabs for 'employees', '*localhost> Script', 'localhost', and 'employees'. The main area shows a SQL script:

```
use employees;  
Show tables;  
select * from employees e ;  
select * from employees e where birth_date < '1965-01-01';
```

Below the script, a tab labeled 'employees 1' is active. It shows the SQL query: `select * from employees e where birth_date < '1965-01-01'`. The results are displayed in a table with columns: emp_no, birth_date, first_name, last_name, gender, and hire_date. The table contains 24 rows of employee data.

	emp_no	birth_date	first_name	last_name	gender	hire_date
1	10,001	1953-09-02	Georgi	Facello	M	1986-06-26
2	10,002	1964-06-02	Bezalel	Simmel	F	1985-11-21
3	10,003	1959-12-03	Parto	Bamford	M	1986-08-28
4	10,004	1954-05-01	Chirstian	Koblick	M	1986-12-01
5	10,005	1955-01-21	Kyoichi	Maliniak	M	1989-09-12
6	10,006	1953-04-20	Anneke	Preusig	F	1989-06-02
7	10,007	1957-05-23	Tzvetan	Zielinski	F	1989-02-10
8	10,008	1958-02-19	Saniya	Kalloufi	M	1994-09-15
9	10,009	1952-04-19	Sumant	Peac	F	1985-02-18
10	10,010	1963-06-01	Duangkaew	Piveteau	F	1989-08-24
11	10,011	1953-11-07	Mary	Sluis	F	1990-01-22
12	10,012	1960-10-04	Patricio	Bridgland	M	1992-12-18
13	10,013	1963-06-07	Eberhardt	Terkki	M	1985-10-20
14	10,014	1956-02-12	Berni	Genin	M	1987-03-11
15	10,015	1959-08-19	Guoxiang	Nooteboom	M	1987-07-02
16	10,016	1961-05-02	Kazuhiro	Cappelletti	M	1995-01-27
17	10,017	1958-07-06	Cristinel	Bouloucos	F	1993-08-03
18	10,018	1954-06-19	Kazuhide	Peha	F	1987-04-03
19	10,019	1953-01-23	Lillian	Haddadi	M	1999-04-30
20	10,020	1952-12-24	Mayuko	Warwick	M	1991-01-26
21	10,021	1960-02-20	Ramzi	Erde	M	1988-02-10
22	10,022	1952-07-08	Shahaf	Famili	M	1995-08-22
23	10,023	1953-09-29	Bojan	Montemayor	F	1989-12-17
24	10,024	1958-09-05	Suzette	Pettey	F	1997-05-19

The bottom status bar shows 'Save', 'Cancel', 'Script', and a '200' value. It also indicates 'Rows: 1' and '200 row(s) fetched - 36ms (1)'.

employees *localhost> Script localhost employees

```

use employees;
Show tables;
select * from employees e ;
/* -- select * from employees e where birth_date < '1965-01-01'; */
select * from employees e where gender = 'f' and hire_date > '1989-12-31';

```

employees 1 ×

select * from employees e where gender = 'f' and hire_date > '1989-12-31' Enter a SQL expression to filter results (use Ctrl+Space)

	emp_no	birth_date	first_name	last_name	gender	hire_date
1	10,011	1953-11-07	Mary	Sluis	F	1990-01-22
2	10,017	1958-07-06	Cristinel	Bouloucos	F	1993-08-03
3	10,024	1958-09-05	Suzette	Petty	F	1997-05-19
4	10,032	1960-08-09	Jeong	Reistad	F	1990-06-20
5	10,040	1959-09-13	Weiyi	Meriste	F	1993-02-14
6	10,042	1956-02-26	Magy	Stamatiou	F	1993-03-21
7	10,044	1961-09-21	Mingsen	Casley	F	1994-05-21
8	10,049	1961-04-24	Basil	Tramer	F	1992-05-04
9	10,056	1961-09-01	Brendon	Bernini	F	1990-02-01
10	10,057	1954-05-30	Ebbe	Callaway	F	1992-01-15
11	10,059	1953-09-19	Alejandro	McAlpine	F	1991-06-26
12	10,074	1955-08-28	Mokhtar	Bernatsky	F	1990-08-13
13	10,101	1952-04-15	Perla	Heyers	F	1992-12-28
14	10,102	1959-11-04	Paraskevi	Luby	F	1994-01-26
15	10,107	1956-06-13	Dung	Baca	F	1994-03-22
16	10,109	1958-11-25	Mariusz	Prampolini	F	1993-06-16
17	10,114	1957-02-16	Munir	Demeyer	F	1992-07-17
18	10,117	1961-10-24	Kiyotoshi	Blokdijk	F	1990-05-28
19	10,118	1957-03-29	Zhonghui	Zyda	F	1990-09-13
20	10,120	1960-03-26	Armond	Fairtlough	F	1996-07-06
21	10,125	1957-09-13	Syozo	Hiltgen	F	1990-10-26
22	10,139	1963-03-03	Ewing	Foong	F	1998-03-15
23	10,140	1957-03-11	Yucel	Auria	F	1991-03-14
24	10,141	1960-01-17	Shahaf	Ishibashi	F	1993-05-06

employees

*localhost> Script X localhost employees

```

use employees;
Show tables;
select * from employees e ;
/* -- Q1 select * from employees e where birth_date < '1965-01-01'; */
/* -- Q2 select * from employees e where gender = 'f' and hire_date > '1989-12-31'; */
select * from employees e where last_name like 'A%' limit 50;

```

employees 1 X

select * from employees e where last_name like 'A%' limit 50 Enter a SQL expression to filter results (use Ctrl+Space)

	emp_no	birth_date	first_name	last_name	gender	hire_date
1	10,065	1963-04-14	Satosi	Awdeh	M	1988-05-18
2	10,077	1964-04-18	Mona	Azuma	M	1990-03-02
3	10,106	1952-08-29	Eben	Aingworth	M	1990-12-19
4	10,140	1957-03-11	Yucel	Auria	F	1991-03-14
5	10,148	1957-10-04	Douadi	Azumi	M	1995-10-10
6	10,157	1954-04-23	Nigel	Aloisi	M	1985-11-02
7	10,175	1960-01-11	Aleksandar	Ananiadou	F	1988-01-11
8	10,200	1961-12-31	Vidya	Awdeh	M	1985-10-16
9	10,207	1955-05-28	Girolamo	Anandan	F	1992-10-11
10	10,210	1958-01-24	Yuping	Alpin	M	1994-05-10
11	10,232	1956-03-11	Marko	Auria	F	1992-06-04
12	10,293	1956-11-24	Mihalis	Avouris	F	1992-12-12
13	10,310	1964-08-29	Aksel	Alencar	M	1990-10-24
14	10,314	1961-05-04	Christfried	Apsitis	M	1986-01-16
15	10,315	1956-08-03	Maris	Angelopoulos	M	1987-08-28
16	10,383	1963-11-13	Leucio	Aumann	M	1991-06-19
17	10,391	1956-06-13	Hongzue	Akaboshi	M	1989-12-24
18	10,414	1954-04-09	Yinlin	Alpin	M	1990-05-30
19	10,469	1964-12-22	Munehiko	Ananiadou	M	1985-06-05
20	10,483	1957-03-13	Zhiwei	Anick	M	1992-11-08
21	10,505	1964-02-04	Isamu	Auria	M	1985-07-23
22	10,519	1955-12-28	Yonghoan	Alencar	F	1986-03-22
23	10,572	1960-10-10	Cordelia	Axelband	M	1988-02-16
24	10,592	1964-08-01	Almudena	Alvarado	M	1990-06-05

Save Cancel Script

200

50

Rows: 0

50 row(s) fetched - 12ms (4m)

```
employees | * <localhost> Script | localhost | employees

use employees;
Show tables;
select * from employees e ;
/* -- Q1 select * from employees e where birth_date < '1965-01-01'; */
/* -- Q2 select * from employees e where gender = 'f' and hire_date > '1989-12-31'; */
/* -- Q3 select * from employees e where last_name like 'A%' limit 50; */
insert into employees values (100, '2013-03-01', 'Marvel', 'Headrick', 'M', '2013-06-03'),
                             (101, '2018-01-08', 'Murphy', 'Sagar', 'M', '2018-08-13'),
                             (102, '1996-07-08', 'Matt', 'Sagar', 'M', '2022-03-06');
select * from employees e limit 10;
```

employees 1 | Output

select * from employees e limit 10

	emp_no	birth_date	first_name	last_name	gender	hire_date
1	100	2013-03-01	Marvel	Headrick	M	2013-06-03
2	101	2018-01-08	Murphy	Sagar	M	2018-08-13
3	102	1996-07-08	Matt	Sagar	M	2022-03-06
4	10,001	1953-09-02	Georgi	Facello	M	1986-06-26
5	10,002	1964-06-02	Bezael	Simmel	F	1985-11-21
6	10,003	1959-12-03	Parto	Bamford	M	1986-08-28
7	10,004	1954-05-01	Chirstian	Koblick	M	1986-12-01
8	10,005	1955-01-21	Kyoichi	Maliniak	M	1989-09-12
9	10,006	1953-04-20	Anneke	Preusig	F	1989-06-02
10	10,007	1957-05-23	Tzvetan	Zielinski	F	1989-02-10

```
employees | * <localhost> Script | localhost | employees

use employees;
Show tables;
select * from employees e ;
/* -- Q1 select * from employees e where birth_date < '1965-01-01'; */
/* -- Q2 select * from employees e where gender = 'f' and hire_date > '1989-12-31'; */
/* -- Q3 select * from employees e where last_name like 'A%' limit 50; */
/* -- Q4 insert into employees values (100, '2013-03-01', 'Marvel', 'Headrick', 'M', '2013-06-03'),
   (101, '2018-01-08', 'Murphy', 'Sagar', 'M', '2018-08-13'),
   (102, '1996-07-08', 'Matt', 'Sagar', 'M', '2022-03-06'); */
update employees set first_name = 'Bob' where emp_no = 10023;
select * from employees e where emp_no = 10023;
```

employees 1 | Output

select * from employees e where emp_no = 10023

	emp_no	birth_date	first_name	last_name	gender	hire_date
1	10,023	1953-09-29	Bob	Montemayor	F	1989-12-17

employees

*localhost> Script X localhost employees

use employees;
Show tables;
select * from employees e ;
/* -- Q1 select * from employees e where birth_date < '1965-01-01'; */
/* -- Q2 select * from employees e where gender = 'f' and hire_date > '1989-12-31'; */
/* -- Q3 select * from employees e where last_name like 'A%' limit 50; */
/* -- Q4 insert into employees values (100, '2013-03-01', 'Marvel', 'Headrick', 'M', '2013-06-03'),
(101, '2018-01-08', 'Murphy', 'Sagar', 'M', '2018-08-13'),
(102, '1996-07-08', 'Matt', 'Sagar', 'M', '2022-03-06'); */
/* -- Q5 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%';
select * from employees e where first_name like 'p%' or last_name like 'p%';

employees 1

Output

select * from employees e where first_name like 'p%' or last_name like 'p%';

Enter a SQL expression to filter results (use Ctrl+Space)

Grid

	emp_no	birth_date	first_name	last_name	gender	hire_date
1	10,003	1959-12-03	Parto	Bamford	M	2002-01-01
2	10,006	1953-04-20	Anneke	Preusig	F	2002-01-01
3	10,009	1952-04-19	Sumant	Peac	F	2002-01-01
4	10,010	1963-06-01	Duangkaew	Piveteau	F	2002-01-01
5	10,012	1960-10-04	Patricio	Bridgland	M	2002-01-01
6	10,018	1954-06-19	Kazuhide	Peha	F	2002-01-01
7	10,024	1958-09-05	Suzette	Pettey	F	2002-01-01
8	10,025	1958-10-31	Prasadram	Heyers	M	2002-01-01
9	10,036	1959-08-10	Adamantios	Portugali	M	2002-01-01
10	10,037	1963-07-22	Pradeep	Makrucki	M	2002-01-01
11	10,062	1961-11-02	Anoosh	Peyn	M	2002-01-01
12	10,080	1957-12-03	Premal	Baek	M	2002-01-01
13	10,082	1963-09-09	Panviz	Lortz	M	2002-01-01
14	10,101	1952-04-15	Perla	Heyers	F	2002-01-01
15	10,102	1959-11-04	Paraskevi	Luby	F	2002-01-01
16	10,105	1962-02-05	Hironoby	Piveteau	M	2002-01-01
17	10,109	1958-11-25	Mariusz	Prampolini	F	2002-01-01
18	10,119	1960-12-01	Domenick	Peltason	M	2002-01-01
19	10,129	1955-12-02	Armond	Peir	M	2002-01-01
20	10,136	1961-09-14	Zissis	Pintelas	M	2002-01-01
21	10,138	1955-04-24	Perry	Shimshoni	M	2002-01-01
22	10,149	1953-05-20	Xiadong	Perry	F	2002-01-01
23	10,150	1955-01-29	Zhenbing	Perng	F	2002-01-01
24	10,177	1954-11-08	Pragnesh	lisaka	M	2002-01-01

Record

Save Cancel Script

200

200+ Rows: 1

200 row(s) fetched - 13ms (5ms fetch), on Apr 09, 15:11:58

CST en Writable Smart Insert 12:77:783 Sel: 0 | 0

employees

<localhost> Script × localhost employees

```
use employees;
show tables;
select * from employees e ;
/* -- Q1 select * from employees e where birth_date < '1965-01-01'; */
/* -- Q2 select * from employees e where gender = 'f' and hire_date > '1989-12-31'; */
/* -- Q3 select * from employees e where last_name like 'Ak' limit 50; */
/* -- Q4 insert into employees values (100, '2013-03-01', 'Marvel', 'Headrick', 'M', '2013-06-03'),
(101, '2018-01-08', 'Murphy', 'Sagar', 'M', '2018-08-13'),
(102, '1996-07-08', 'Matt', 'Sagar', 'M', '2022-03-06'); */
/* -- Q5 update employees set first_name = 'Bob' where emp_no = 10023; */
/* -- Q6 update employees set hire_date = '2002-01-01' where first_name like 'p%' or last_name like 'p%'; */
delete from employees e where emp_no < '10000';
select * from employees e limit 50;
```

Results 1

employees 1 (2)

employees 1 (3) ×

Statistics 1

Output

select * from employees e limit 50

Enter a SQL expression to filter results (use Ctrl+Space)

	emp_no	birth_date	first_name	last_name	gender	hire_date
1	10,001	1953-09-02	Georgi	Facello	M	1986-06-26
2	10,002	1964-06-02	Bezael	Simmel	F	1985-11-21
3	10,003	1959-12-03	Parto	Bamford	M	2002-01-01
4	10,004	1954-05-01	Chirstian	Koblick	M	1986-12-01
5	10,005	1955-01-21	Kyoichi	Maliniak	M	1989-09-12
6	10,006	1953-04-20	Anneke	Preusig	F	2002-01-01
7	10,007	1957-05-23	Tzvetan	Zielinski	F	1989-02-10
8	10,008	1958-02-19	Saniya	Kalloufi	M	1994-09-15
9	10,009	1952-04-19	Sumant	Peac	F	2002-01-01
10	10,010	1963-06-01	Duangkaew	Piveteau	F	2002-01-01
11	10,011	1953-11-07	Mary	Sluis	F	1990-01-22
12	10,012	1960-10-04	Patricio	Bridgland	M	2002-01-01
13	10,013	1963-06-07	Eberhardt	Terkki	M	1985-10-20
14	10,014	1956-02-12	Berni	Genin	M	1987-03-11
15	10,015	1959-08-19	Guoxiang	Nooteboom	M	1987-07-02
16	10,016	1961-05-02	Kazuhiro	Cappelletti	M	1995-01-27
17	10,017	1958-07-06	Cristinel	Bouloucos	F	1993-08-03
18	10,018	1954-06-19	Kazuhide	Peha	F	2002-01-01
19	10,019	1953-01-23	Lillian	Haddadi	M	1999-04-30
20	10,020	1952-12-24	Mayuko	Warwick	M	1991-01-26
21	10,021	1960-02-20	Ramzi	Erde	M	1988-02-10
22	10,022	1952-07-08	Shahaf	Famili	M	1995-08-22
23	10,023	1953-09-29	Bob	Montemayor	F	1989-12-17
24	10,024	1958-09-05	Suzette	Petty	F	2002-01-01

Save

Cancel

Script

200

50

50 row(s) fetched

CST en

Writable

Smart Insert

12:38:756

Set 0 | 0

3:14 PM

4/9/2022

employees | *localhost> Script | localhost | employees

```
use employees;
Show tables;
select * from employees e ;
/* -- Q1 select * from employees e where birth_date < '1965-01-01'; */
/* -- Q2 select * from employees e where gender = 'f' and hire_date > '1989-12-31'; */
/* -- Q3 select * from employees e where last_name like 'AX' limit 50; */
/* -- Q4 insert into employees values (100, '2013-03-01', 'Marvel', 'Headrick', 'M', '2013-06-03'),
(101, '2018-01-08', 'Murphy', 'Sagar', 'M', '2018-08-13'),
(102, '1996-07-08', 'Matt', 'Sagar', 'M', '2022-03-06'); */
/* -- Q5 update employees set first_name = 'Bob' where emp_no = 10023; */
/* -- Q6 update employees set hire_date = '2002-01-01' where first_name like 'p%' or last_name like 'p%'; */
/* -- Q7 delete from employees e where emp_no < '10000'; */
delete from employees e where (emp_no) in (10048, 10099, 10234, 20089);
select * from employees e where emp_no > 10045;
```

employees 1 x

select * from employees e where emp_no > 10045 | Enter a SQL expression to filter results (use Ctrl+Space)

	emp_no	birth_date	first_name	last_name	gender	hire_date
1	10,046	1960-07-23	Lucien	Rosenbaum	M	1992-06-20
2	10,047	1952-06-29	Zvonko	Nyanchama	M	1989-03-31
3	10,049	1961-04-24	Basil	Tramer	F	1992-05-04
4	10,050	1958-05-21	Yinghua	Dredge	M	1990-12-25
5	10,051	1953-07-28	Hidefumi	Caine	M	1992-10-15
6	10,052	1961-02-26	Heping	Nitsch	M	1988-05-21
7	10,053	1954-09-13	Sanjiv	Zschoche	F	1986-02-04
8	10,054	1957-04-04	Mayumi	Schueller	M	1995-03-13
9	10,055	1956-06-06	Georgy	Dredge	M	1992-04-27
10	10,056	1961-09-01	Brendon	Bernini	F	1990-02-01
11	10,057	1954-05-30	Ebbe	Callaway	F	1992-01-15
12	10,058	1954-10-01	Berhard	McFarlin	M	1987-04-13
13	10,059	1953-09-19	Alejandro	McAlpine	F	1991-06-26
14	10,060	1961-10-15	Breannnda	Billingsley	M	1987-11-02
15	10,061	1962-10-19	Tse	Herber	M	1985-09-17
16	10,062	1961-11-02	Anoosh	Peyn	M	2002-01-01
17	10,063	1952-08-06	Gino	Leonhardt	F	1989-04-08
18	10,064	1959-04-07	Udi	Jansch	M	1985-11-20
19	10,065	1963-04-14	Satosi	Awdeh	M	1988-05-18
20	10,066	1952-11-13	Kwee	Schusler	M	1986-02-26
21	10,067	1953-01-07	Claudi	Stavenow	M	1987-03-04
22	10,068	1962-11-26	Charlene	Brattka	M	1987-08-07
23	10,069	1960-09-06	Margareta	Bierman	F	1989-11-05
24	10,070	1955-08-20	Reuven	Garigliano	M	1985-10-14

Grid | Text | Record

Save | Cancel | Script | Rows: 1 | 400 row(s) fetched - 10ms (10ms fetch), on Apr 09, 15:22:17

CST | en | Writeable | Smart Insert | 14:48:00 | Set 010

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

employees *localhost> Script X localhost employees

```

use employees;
Show tables;
select * from employees e ;
select * from employees e where birth_date < '1965-01-01';
select * from employees e where gender = 'f' and hire_date > '1989-12-31';
select * from employees e where last_name like 'A%' limit 50;
insert into employees values (100, '2013-03-01', 'Marvel', 'Headrick', 'M', '2013-06-03'),
                             (101, '2018-01-08', 'Murphy', 'Sagar', 'M', '2018-08-13'),
                             (102, '1996-07-08', 'Matt', 'Sagar', 'M', '2022-03-06');
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 e where emp_no < '10000';
delete from employees e where (emp_no) in (10048, 10099, 10234, 20089);
select * from employees e order by emp_no desc limit 20;

```

Results 1 employees 1 (2) employees 1 (3) employees 1 (4) employees 1 (5) employees 1 (6) X Statistics 1

select * from employees e order by emp_no desc limit 20 Enter a SQL expression to filter results (use Ctrl+Space)

	emp_no	birth_date	first_name	last_name	gender	hire_date
1	499,999	1958-05-01	Sachin	Tsukuda	M	1997-11-30
2	499,998	1956-09-05	Patricia	Breugel	M	2002-01-01
3	499,997	1961-08-03	Berhard	Lenart	M	1986-04-21
4	499,996	1953-03-07	Zito	Baaz	M	1990-09-27
5	499,995	1958-09-24	Dekang	Lichtner	F	1993-01-12
6	499,994	1952-02-26	Navin	Argence	F	1990-04-24
7	499,993	1963-06-04	DeForest	Mullainathan	M	1997-04-07
8	499,992	1960-10-12	Siamak	Salverda	F	1987-05-10
9	499,991	1962-02-26	Pohua	Sichman	F	2002-01-01
10	499,990	1963-11-03	Khaled	Kohling	M	1985-10-10
11	499,989	1954-05-26	Keiichiro	Lindqvist	M	1993-10-28
12	499,988	1962-09-28	Bangqing	Kleiser	F	1986-06-06
13	499,987	1961-09-05	Rimli	Dusink	F	1998-09-20
14	499,986	1952-07-22	Nathan	Ranta	F	1985-08-11
15	499,985	1964-12-26	Gila	Lukaszewicz	M	1997-02-11
16	499,984	1959-08-31	Kaijung	Rodham	M	1985-09-11
17	499,983	1955-08-29	Uri	Juneja	F	1989-08-28
18	499,982	1954-08-25	Mohammed	Pleszkun	M	2002-01-01
19	499,981	1955-01-02	Yunming	Mitina	F	1991-03-07
20	499,980	1959-06-28	Gino	Usery	M	1991-02-11

URL to GitHub Repository:

<https://github.com/mttsgr/Week7-MYSQL-Assignment>