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. There emp_no should be 100, 101, and 102. You can choose the rest of the data.

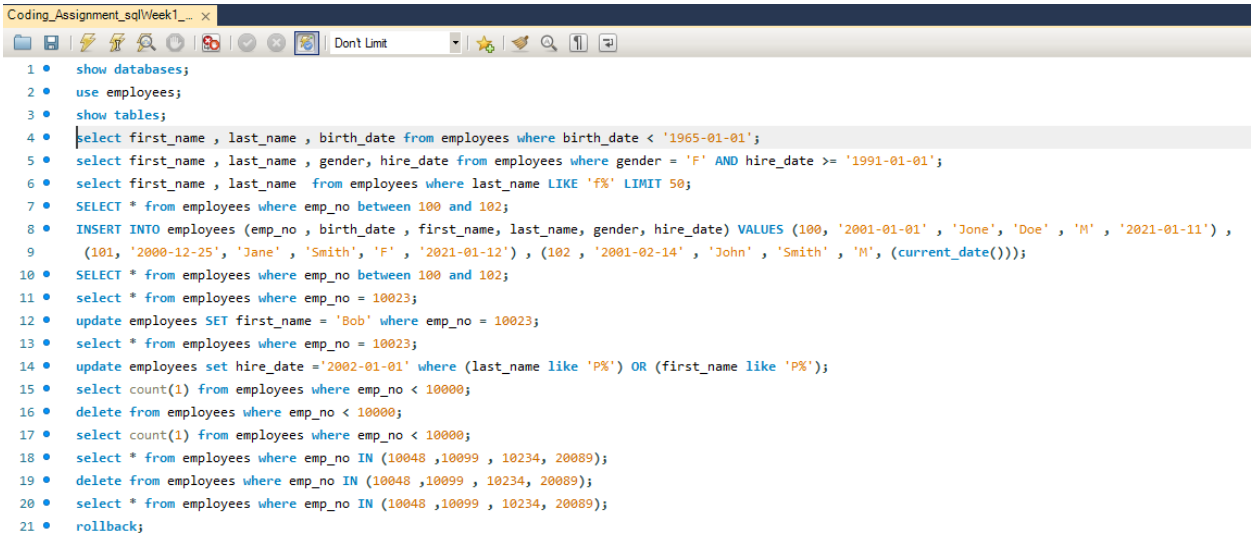
5. Change the employee's first name to Bob for the employee with the emp_no of 10023.

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  show databases;
2  use employees;
3  show tables;
4  select first_name , last_name , birth_date from employees where birth_date < '1965-01-01';
5  select first_name , last_name , gender, hire_date from employees where gender = 'F' AND hire_date >= '1991-01-01';
6  select first_name , last_name  from employees where last_name LIKE 'f%' LIMIT 50;
7  SELECT * from employees where emp_no between 100 and 102;
8  INSERT INTO employees (emp_no , birth_date , first_name, last_name, gender, hire_date) VALUES (100, '2001-01-01' , 'Jone', 'Doe' , 'M' , '2021-01-11') ,
9   (101, '2000-12-25', 'Jane' , 'Smith', 'F' , '2021-01-12') , (102 , '2001-02-14' , 'John' , 'Smith' , 'M', (current_date()));
10 SELECT * from employees where emp_no between 100 and 102;
11 select * from employees where emp_no = 10023;
12 update employees SET first_name = 'Bob' where emp_no = 10023;
13 select * from employees where emp_no = 10023;
14 update employees set hire_date ='2002-01-01' where (last_name like 'P%') OR (first_name like 'P%');
15 select count(1) from employees where emp_no < 10000;
16 delete from employees where emp_no < 10000;
17 select count(1) from employees where emp_no < 10000;
18 select * from employees where emp_no IN (10048 ,10099 , 10234, 20089);
19 delete from employees where emp_no IN (10048 ,10099 , 10234, 20089);
20 select * from employees where emp_no IN (10048 ,10099 , 10234, 20089);
21 rollback;
```

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

```
select first_name , last_name , birth_date from employees where
birth_date < '1965-01-01';
```

Result Grid | Filter Rows: | Expo

first_name	last_name	birth_date
Gino	Usery	1959-06-28
Yunming	Mitina	1955-01-02
Mohammed	Pleszkun	1954-08-25
Uri	Juneja	1955-08-29
Kaijung	Rodham	1959-08-31
Gila	Lukaszewicz	1964-12-26
Nathan	Ranta	1952-07-22
Rimli	Dusink	1961-09-05
Bangqing	Kleiser	1962-09-28
Keiichiro	Lindqvist	1954-05-26
Khaled	Kohling	1963-11-03
Pohua	Sichman	1962-02-26
Siamak	Salverda	1960-10-12
DeForest	Mullainat...	1963-06-04
Navin	Argence	1952-02-26
Dekang	Lichtner	1958-09-24
Zito	Baaz	1953-03-07
Berhard	Lenart	1961-08-03
Patricia	Breugel	1956-09-05
Sachin	Tsukuda	1958-05-01

```
select first_name , last_name , gender, hire_date from employees
where gender = 'F' AND hire_date >= '1991-01-01';
```

Result Grid | Filter Rows:

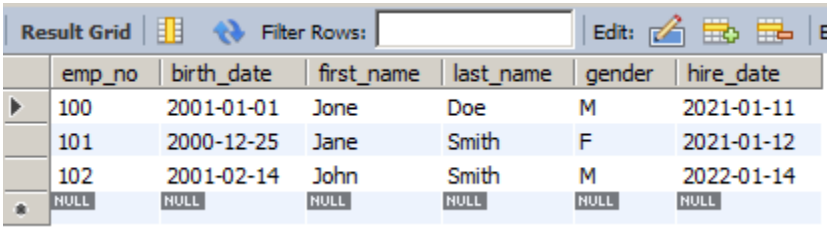
first_name	last_name	gender	hire_date
Cristinel	Bouloucos	F	1993-08-03
Suzette	Pettey	F	1997-05-19
Weiyi	Meriste	F	1993-02-14
Magy	Stamatiou	F	1993-03-21
Mingsen	Casley	F	1994-05-21
Basil	Tramer	F	1992-05-04
Ebbe	Callaway	F	1992-01-15
Alejandro	McAlpine	F	1991-06-26
Perla	Heyers	F	1992-12-28
Paraskevi	Luby	F	1994-01-26
Dung	Baca	F	1994-03-22
Mariusz	Prampolini	F	1993-06-16
Munir	Demeyer	F	1992-07-17
Armond	Fairtlough	F	1996-07-06
Ewing	Foong	F	1998-03-15
Yucel	Auria	F	1991-03-14
Shahaf	Ishibashi	F	1993-05-06
Samphel	Siegrist	F	1993-01-01
Sampalli	Snedden	F	1992-07-24
Shigeu	Matzen	F	1995-10-13
Brendon	Lenart	F	1994-12-22

```
select first_name , last_name  from employees where last_name
LIKE 'f%' LIMIT 50;
```

Result Grid | Filter Rows:

first_name	last_name
Georgi	Facello
Shahaf	Famili
Somnath	Foote
Sudharsan	Flasterstein
Armond	Fairtlough
Ewing	Foong
Sumali	Fargier
Badri	Furudate
Arve	Fairtlough
Mohua	Falck
Pranav	Furedi
Kish	Fasbender
Foong	Flasterstein
Roded	Facello
Clyde	Fandrianto
Anneli	Frijda
Masoud	Fabrizio
Przemysla...	Falby
Hisao	Famili
Lalit	Francisci
Heejo	Frolund

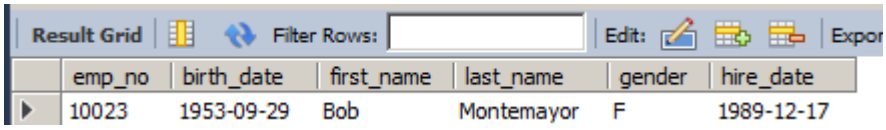
```
SELECT * from employees where emp_no between 100 and 102;
INSERT INTO employees (emp_no , birth_date , first_name,
last_name, gender, hire_date) VALUES (100, '2001-01-01' ,
'Jone', 'Doe' , 'M' , '2021-01-11') ,
 (101, '2000-12-25', 'Jane' , 'Smith', 'F' , '2021-01-12') ,
(102 , '2001-02-14' , 'John' , 'Smith' , 'M', (current_date()));
SELECT * from employees where emp_no between 100 and 102;
```



emp_no	birth_date	first_name	last_name	gender	hire_date
100	2001-01-01	Jone	Doe	M	2021-01-11
101	2000-12-25	Jane	Smith	F	2021-01-12
102	2001-02-14	John	Smith	M	2022-01-14
NULL	NULL	NULL	NULL	NULL	NULL

Student Note: First select query is at bottom (oldest) with no data inserted.

```
update employees SET first_name = 'Bob' where emp_no = 10023;
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

```
SELECT first_name, last_name , hire_date from employees WHERE (last_name
like 'P%') OR (first_name like 'P%');

UPDATE employees set hire_date ='2002-01-01' where (last_name like 'P%')
OR (first_name like 'P%');

SELECT first_name, last_name , hire_date from employees WHERE (last_name
like 'P%') OR (first_name like 'P%');
```

Result Grid | Filter Rows:

first_name	last_name	hire_date
Parto	Bamford	1986-08-28
Anneke	Preusig	1989-06-02
Sumant	Peac	1985-02-18
Duangkaew	Piveteau	1989-08-24
Patricio	Bridgland	1992-12-18
Kazuhide	Peha	1987-04-03
Suzette	Pettey	1997-05-19
Prasadram	Heyers	1987-08-17
Adamantios	Portugali	1992-01-03
Pradeep	Makrucki	1990-12-05
Anoosh	Peyn	1991-08-30
Premal	Baek	1985-11-19
Parviz	Lortz	1990-01-03
Perla	Heyers	1992-12-28
Paraskevi	Luby	1994-01-26
Hironoby	Piveteau	1999-03-23
Mariusz	Prampolini	1993-06-16
Domenick	Peltason	1986-03-14
Armond	Peir	1985-12-10
Zissis	Pintelas	1986-02-11
Perry	Shimshoni	1986-09-18

5 22:43:21 UPDATE employees set hire_date ='2002-01-01' where (last_name like 'P%') OR (first_name like 'P%') 31566 row(s) affected Rows matched: 31566 Changed: 31566 Warnings: 0

Result Grid | Filter Rows:

first_name	last_name	hire_date
Paris	Deyuan	2002-01-01
Lihong	Pusterhofer	2002-01-01
Annemarie	Peroz	2002-01-01
Moriyoshi	Pusterhofer	2002-01-01
Huican	Passafiume	2002-01-01
Kayoko	Peroz	2002-01-01
Kasidit	Picel	2002-01-01
Premal	Passino	2002-01-01
Parke	Pell	2002-01-01
Youpyo	Perfilyeva	2002-01-01
Phillip	Schnabel	2002-01-01
Ymte	Perelgut	2002-01-01
Pantung	Litzler	2002-01-01
Cordelia	Paludetto	2002-01-01
Leszek	Pulkowski	2002-01-01
Shuichi	Piazza	2002-01-01
Prasadram	Waleschk...	2002-01-01
Mohammed	Pleszkun	2002-01-01
Pohua	Sichman	2002-01-01
Patricia	Breugel	2002-01-01

```
delete from employees where emp_no < 10000;
select count(1) from employees where emp_no < 10000;
```

```
8  22:48:21  delete from employees where emp_no < 10000   3 row(s) affected
```

Result Grid | Filter Rows:

count(1)
0

```
select * from employees where emp_no IN (10048 ,10099 , 10234,
20089);
delete from employees where emp_no IN (10048 ,10099 , 10234,
20089);
select * from employees where emp_no IN (10048 ,10099 , 10234,
20089);
```

Result Grid | Filter Rows: | Edit:

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

```
13  22:52:47  delete from employees where emp_no IN (10048 ,10099 , 10234, 20089)   4 row(s) affected
```

Result Grid | Filter Rows: | Edit:

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

URL to GitHub Repository:

https://github.com/david2joh/sqlweek1.git