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, with your Java project code, to the repository. Lastly, in the Learning Management System, click the "Add Submission" button and paste the URL to your GitHub repository.
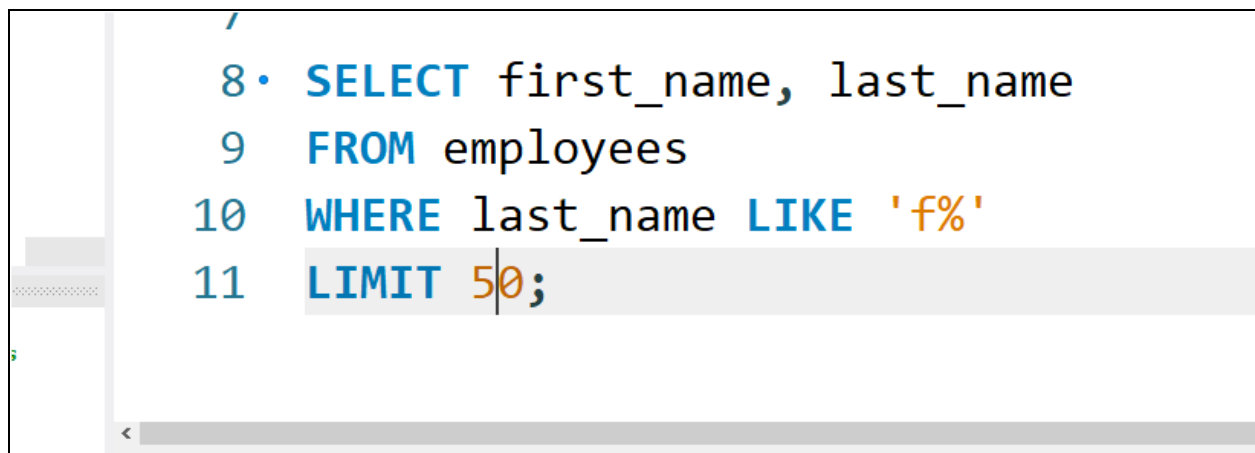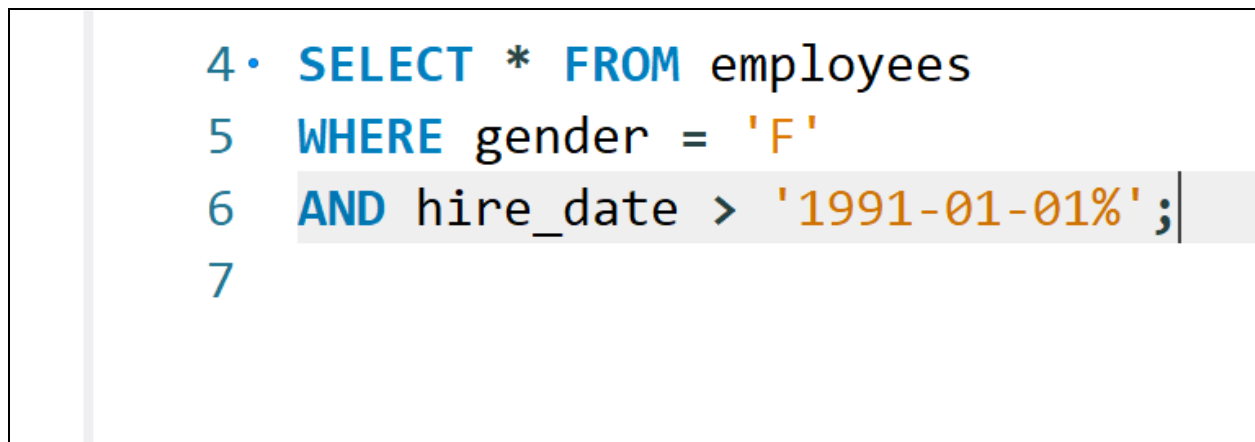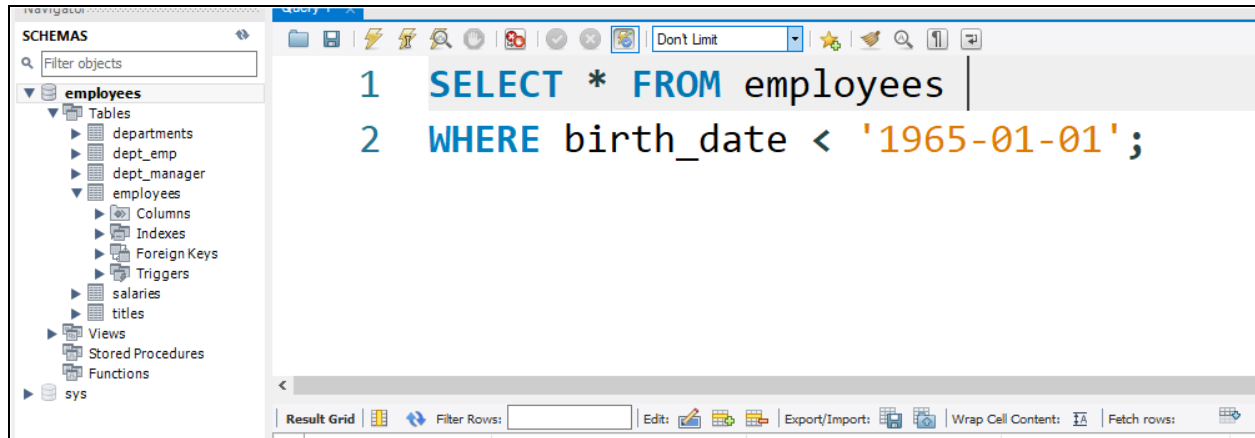
Coding Steps:

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:


```sql
1  SELECT * FROM employees
2  WHERE birth_date < '1965-01-01';
```



```sql
4 • SELECT * FROM employees
5   WHERE gender = 'F'
6   AND hire_date > '1991-01-01%';
7
```



```sql
8 • SELECT first_name, last_name
9   FROM employees
10  WHERE last_name LIKE 'f%'
11  LIMIT 50;
```

```sql
13· INSERT INTO employees
14  (emp_no, birth_date, first_name, last_name, gender, hire_date)
15  VALUES (100, '1989-01-01', 'John', 'Wayne', 'M', '2001-10-01'),
16  (101, '1977-01-01', 'Scott', 'Smith', 'M', '2005-03-01'),
17  (102, '1988-01-01', 'Scarlett', 'Johanssen', 'F', '2000-05-01');
```

```sql
21· UPDATE employees
22  SET first_name = 'Bob'
23  WHERE emp_no = 10023;
24
25
```

```sql
27· SELECT * FROM employees
28  WHERE first_name LIKE 'p%'
29  OR last_name LIKE 'p%';
30
31· UPDATE employees
32  SET hire_date = '2002-01-01'
33  WHERE first_name LIKE 'p%'
34  OR last_name LIKE 'p%';
```

```
35
36 •  DELETE FROM employees WHERE emp_no < 10000;
```

Output

Action Output   ▾

#	Time	Action	Message
●	1 06:36:03	UPDATE employees SET hire_date = '2002-01-01' WHERE first_name LIKE 'p%' OR last_name LIKE 'p%'	31566 row(s) affected Rows matched: 31566 Changed: 31566 Warnings: 0
●	2 06:36:24	SELECT * FROM employees WHERE first_name LIKE 'p%' OR last_name LIKE 'p%'	31566 row(s) returned
●	3 06:40:00	DELETE FROM employees WHERE emp_no < 10000	3 row(s) affected

```
40 •  SELECT * FROM employees
41    WHERE emp_no IN (10048, 10099, 10234, 20089);
42
43 •  DELETE FROM employees
44    WHERE emp_no IN (10048, 10099, 10234, 20089);
```

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

emp_no	birth_date	first_name	last_name	gender	hire_date
499980	1959-06-28	Gino	Usery	M	1991-02-11
499981	1955-01-02	Yunming	Mitina	F	1991-03-07
499982	1954-08-25	Mohammed	Pleszkun	M	1986-02-21
499983	1955-08-29	Uri	Juneja	F	1989-08-28
499984	1959-08-31	Kaijung	Rodham	M	1985-09-11
499985	1964-12-26	Gila	Lukasze...	M	1997-02-11
499986	1952-07-22	Nathan	Ranta	F	1985-08-11
499987	1961-09-05	Rimli	Dusink	F	1998-09-20
499988	1962-09-28	Bangqing	Kleiser	F	1986-06-06
499989	1954-05-26	Keiichiro	Lindqvist	M	1993-10-28
499990	1963-11-03	Khaled	Kohling	M	1985-10-10
499991	1962-02-26	Pohua	Sichman	F	1989-01-12
499992	1960-10-12	Siamak	Salverda	F	1987-05-10
499993	1963-06-04	DeForest	Mullainat...	M	1997-04-07
499994	1952-02-26	Navin	Argence	F	1990-04-24
499995	1958-09-24	Dekang	Lichtner	F	1993-01-12
499996	1953-03-07	Zito	Baaz	M	1990-09-27
499997	1961-08-03	Berhard	Lenart	M	1986-04-21
499998	1956-09-05	Patricia	Breugel	M	1993-10-13
499999	1958-05-01	Sachin	Tsukuda	M	1997-11-30

emp_no	birth_date	first_name	last_name	gender	hire_date
499861	1959-11-18	Subhash	Barriga	F	1998-02-15
499871	1958-11-13	Elrique	Walstra	F	1993-07-05
499875	1961-01-11	Chenyi	Hainaut	F	1991-07-16
499885	1963-09-21	Jagoda	Lanphier	F	1997-05-09
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
499916	1962-01-09	Florina	Cusworth	F	1997-05-18
499923	1964-12-21	Sergi	Melton	F	1993-04-08
499933	1957-10-21	Chuanti	Riesenhu...	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	Udaiprak...	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
499995	1958-09-24	Dekang	Lichtner	F	1993-01-12

employees 5 ×

first_name	last_name
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	Fraisse

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: $\overline{I}A$

emp_no	birth_date	first_name	last_name	gender	hire_date
100	1989-01-01	John	Wayne	M	2001-10-01
101	1977-01-01	Scott	Smith	M	2005-03-01
102	1988-01-01	Scarlett	Johanssen	F	2000-05-01

Result Grid

Form Editor

Result Grid | Filter Rows: [ ] | Edit: | Export/Import: | Wrap Cell Content

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

Result Grid | Filter Rows: [ ] | Edit: | Export/Import: | Wrap Cell Content: | Fe

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	Peroz	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	Peroz	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	Perfilyeva	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	Waleschk...	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
NULL	NULL	NULL	NULL	NULL	NULL

```
38 ·  SELECT * FROM employees LIMIT 20;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: ℤA

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	Bezalel	Simmel	F	1985-11-21
10003	1959-12-03	Parto	Bamford	M	2002-01-01
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	2002-01-01
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	2002-01-01
10010	1963-06-01	Duangkaew	Piveteau	F	2002-01-01
10011	1953-11-07	Mary	Sluis	F	1990-01-22
10012	1960-10-04	Patricio	Bridgland	M	2002-01-01
10013	1963-06-07	Eberhardt	Terkki	M	1985-10-20

employees 3 ×

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

employees 3 ×

Output

Action Output

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: ℤA

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

employees 4 ×

Output

Action Output

#	Time	Action	Message
5	06:44:00	SELECT * FROM employees WHERE emp_no IN (10048, 10099, 10234, 20089)	4 row(s) returned
6	06:45:33	DELETE FROM employees WHERE emp_no IN (10048, 10099, 10234, 20089)	4 row(s) affected
7	06:45:39	SELECT * FROM employees WHERE emp_no IN (10048, 10099, 10234, 20089)	0 row(s) returned

URL to GitHub Repository:

https://github.com/lcuevas6/week-one-SQL-assignment.git