

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:

```
select * from employees where birth_date < '1965-01-01';

select * from employees where hire_date >= '1990-1-1' && gender = 'F';

select * from employees where last_name like 'F%' limit 10;

insert into employees values
('100','1960-01-01','jon','fred I','m','1960-01-02'),
('101','1961-01-01','jon','fred II','m','1961-01-02'),
('102','1962-01-01','jon','fred III','m','1962-01-02');

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 where emp_no < '10000';

delete from employees where emp_no = '10048' or '10099' or '10234' or '20089';
```

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

10517	1953-06-18	Tiina	Speak	M	1990-12-25
10518	1963-05-23	Marin	Lanphier	M	1993-09-03
10519	1955-12-28	Yonghoan	Alencar	F	1986-03-22
10520	1964-03-06	Jenwei	Ecklund	M	1994-03-27
10521	1957-07-31	Kwangsub	Setia	M	1989-05-11
10522	1955-07-24	Marke	Cesareni	F	1986-12-12
10523	1956-05-16	Malu	Skafidas	M	1988-12-28
10524	1959-05-02	Shigehiro	Cincotta	F	1985-10-09
10525	1963-03-29	Yuchang	Lunt	M	1990-07-08
10526	1963-12-31	Kwangho	Theuretzbacher	F	1988-02-27
10527	1964-09-15	Tetsushi	Barvinok	F	1996-01-25
10528	1963-05-16	Koichi	Lakshmanan	F	1991-12-29
10529	1952-11-21	Ymte	Yetto	M	1992-01-05
10530	1956-07-19	Boriana	Coors	F	1987-09-23
10531	1954-06-11	Oguz	Gimbel	F	1991-02-20
10532	1959-08-31	Mary	Wossner	F	1986-05-18
10533	1963-06-25	Mohamadou	Smailagic	F	1986-10-31
10534	1964-10-23	Dinah	Bahl	M	1989-01-15
10535	1961-05-19	Shalesh	Stroustrup	F	1985-02-21
10536	1964-10-29	Yechiam	Sambasivam	F	1988-03-25
10537	1962-06-29	Stella	Benzmuller	M	1996-09-25
10538	1955-08-18	Przemyslaw	Falby	M	1987-07-23
10539	1959-05-13	Yucel	Reinhard	M	1990-06-05
10540	1961-02-24	Martins	Barriga	M	1994-05-03
10541	1955-11-05	Godehard	Eiter	M	1986-02-28
10542	1955-01-05	Y -- query aborted			

Yannis | Couchot | F | 1989-03-28 |

298087 rows in set (0.40 sec)

```
mysql>
```

```

12230 | 1952-02-08 | Yuriy | Bellone | F | 1994-03-02 |
12233 | 1960-02-05 | Constantijn | Gruenwald | F | 1992-12-20 |
12235 | 1954-06-05 | Honesty | Haumacher | F | 1997-07-10 |
12237 | 1958-04-11 | Chikara | Ballarin | F | 1991-11-20 |
12239 | 1957-02-07 | Parviz | Kalloufi | F | 1997-04-04 |
12242 | 1954-04-08 | Satoru | Wolniewicz | F | 1994-02-24 |
12250 | 1954-10-02 | Kerhong | Aloia | F | 1991-04-25 |
12257 | 1957-04-24 | Hinrich | Munawer | F | 1991-10-14 |
12258 | 1955-01-06 | Kankanahalli | Eiter | F | 1990-06-22 |
12259 | 1960-03-19 | Juichirou | Hofting | F | 1998-05-26 |
12263 | 1956-03-25 | Srinidhi | Alencar | F | 1990-03-07 |
12269 | 1952-06-22 | Mohammed | Whitcomb | F | 1994-07-06 |
12277 | 1960-06-26 | Oldrich | Peot | F | 1990-05-15 |
12281 | 1953-08-13 | Hisao | Langford | F | 1993-09-22 |
12285 | 1964-12-30 | Stepehn | Erman | F | 1991-02-21 |
12291 | 1953-12-28 | Masamitsu | Koyama | F | 1993-03-29 |
12309 | 1956-12-12 | Hilari | Potthoff | F | 1995-05-17 |
12316 | 1953-12-30 | Hyuncheol | Duclos | F | 1992-04-05 |
12320 | 1958-06-09 | Nobuyoshi | Swick | F | 1993-02-28 |
12321 | 1959-08-04 | Heekeun | Schicker | F | 1996-07-13 |
12322 | 1962-04-02 | Mohammed | Kambil | F | 1996-05-20 |
12323 | 1961-12-21 | Arra | Zweizig | F | 1996-10-24 |
12331 | 1961-03-30 | Kotesch | Setia | F | 1992-12-01 |
12334 | 1962-03-08 | Mary | Ertl | F | 1990-03-06 |
12338 | 1952-09-23 | Kagan | Besselaar | F | 1993-05-19 |
12344 | 1958-06-27 | Hauke | Hennings | F | 1990-07-28 |
12345 | 1954-04-29 | Xuedong | Mellouli | F | 1990-07-09 |
12361 | 1958-09-04 | Elliott | Strandh | F | 1992-06-05 |
12364 | 1954-07-01 | Neelam | Cummings | F | 1998-06-02 |
12366 | 1952-08-11 | Patricio | Setlzner | C -- query aborted
F | 1994-07-16 |
-----+-----+-----+-----+-----+
53839 rows in set, 1 warning (0.22 sec)

mysql> select * from employees where hire_date >= '1990-1-1' && gender = 'F';

```

```

mysql> select * from employees where last_name like 'F%' limit 10;
+-----+-----+-----+-----+-----+-----+
| emp_no | birth_date | first_name | last_name | gender | hire_date |
+-----+-----+-----+-----+-----+-----+
| 100 | 1960-01-01 | jon | fred I | M | 1960-01-02 |
| 101 | 1961-01-01 | jon | fred II | M | 1961-01-02 |
| 102 | 1962-01-01 | jon | fred III | M | 1962-01-02 |
| 10001 | 1953-09-02 | Georgi | Facello | M | 1986-06-26 |
| 10022 | 1952-07-08 | Shahaf | Famili | M | 1995-08-22 |
| 10086 | 1962-11-19 | Somnath | Foote | M | 1990-02-16 |
| 10089 | 1963-03-21 | Sudharsan | Flasterstein | F | 1986-08-12 |
| 10120 | 1960-03-26 | Armond | Fairtlough | F | 1996-07-06 |
| 10139 | 1963-03-03 | Ewing | Foong | F | 1998-03-15 |
| 10156 | 1964-09-19 | Sumali | Fargier | M | 1985-03-10 |
+-----+-----+-----+-----+-----+-----+
10 rows in set (0.00 sec)

mysql>

```

```
mysql> insert into employees values
  -> ('100','1960-01-01','jon','fred I','m','1960-01-02'),
  -> ('101','1961-01-01','jon','fred II','m','1961-01-02'),
  -> ('102','1962-01-01','jon','fred III','m','1962-01-02');
ERROR 1062 (23000): Duplicate entry '100' for key 'employees.PRIMARY'
mysql>
mysql> select * from employees where emp_no >= 100 && emp_no <= 102;
+-----+-----+-----+-----+-----+-----+
| emp_no | birth_date | first_name | last_name | gender | hire_date |
+-----+-----+-----+-----+-----+-----+
| 100    | 1960-01-01 | jon       | fred I    | M      | 1960-01-02 |
| 101    | 1961-01-01 | jon       | fred II   | M      | 1961-01-02 |
| 102    | 1962-01-01 | jon       | fred III  | M      | 1962-01-02 |
+-----+-----+-----+-----+-----+-----+
3 rows in set, 1 warning (0.00 sec)

mysql>
```

```
mysql> update employees set first_name = 'Bob' where emp_no = '10023';
Query OK, 0 rows affected (0.00 sec)
Rows matched: 1  Changed: 0  Warnings: 0

mysql> 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 |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql>
```

```
mysql> update employees set hire_date = '2002-01-01' where first_name like 'P%' or last_name like 'P%';
Query OK, 31566 rows affected (1.44 sec)
Rows matched: 31566  Changed: 31566  Warnings: 0
```

```
mysql> select * from employees where first_name like 'P%' or last_name like 'P%' limit 20;
```

emp_no	birth_date	first_name	last_name	gender	hire_date
10003	1959-12-03	Parto	Bamford	M	2002-01-01
10006	1953-04-20	Anneke	Preusig	F	2002-01-01
10009	1952-04-19	Sumant	Peac	F	2002-01-01
10010	1963-06-01	Duangkaew	Piveteau	F	2002-01-01
10012	1960-10-04	Patricio	Bridgland	M	2002-01-01
10018	1954-06-19	Kazuhide	Peha	F	2002-01-01
10024	1958-09-05	Suzette	Petty	F	2002-01-01
10025	1958-10-31	Prasadram	Heyers	M	2002-01-01
10036	1959-08-10	Adamantios	Portugali	M	2002-01-01
10037	1963-07-22	Pradeep	Makrucki	M	2002-01-01
10062	1961-11-02	Anoosh	Peyn	M	2002-01-01
10080	1957-12-03	Premal	Baek	M	2002-01-01
10082	1963-09-09	Parviz	Lortz	M	2002-01-01
10101	1952-04-15	Perla	Heyers	F	2002-01-01
10102	1959-11-04	Paraskevi	Luby	F	2002-01-01
10105	1962-02-05	Hironoby	Piveteau	M	2002-01-01
10109	1958-11-25	Mariusz	Prampolini	F	2002-01-01
10119	1960-12-01	Domenick	Peltason	M	2002-01-01
10129	1955-12-02	Armond	Peir	M	2002-01-01
10136	1961-09-14	Zissis	Pintelas	M	2002-01-01

```
20 rows in set (0.00 sec)
```

```
mysql>
```

```
mysql> delete from employees where emp_no < 10000;
Query OK, 3 rows affected (0.01 sec)
```

```
mysql>
```

URL to GitHub Repository:

<https://github.com/jaredInElit/SQL-Testing.git>