

# 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. 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

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

2. Show all employees who are female and were hired after 1990

```
select * from employees where gender = 'F' and hire_date > '1990-12-31';
```

3. Show the first and last name of the first 50 employees whose last name starts with F

```
select first_name, last_name from employees where last_name like 'F%' limit 50;
```

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.

```
insert into employees values (100, '1973-09-30', 'Jim', 'Smith', 'M', '2020-02-12'),  
(101, '1993-09-30', 'Bob', 'Smith', 'M', '2018-04-17'),  
(102, '1983-07-23', 'Jack', 'Smith', 'M', '2019-02-12');
```

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.

```
update employees set employees.hire_date = '2002-01-01' where employees.first_name like 'P%'  
or employees.last_name like 'P%';
```

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

7. Delete all employees who have an emp\_no less than 10000

```
delete from employees where emp_no < 10000;
```

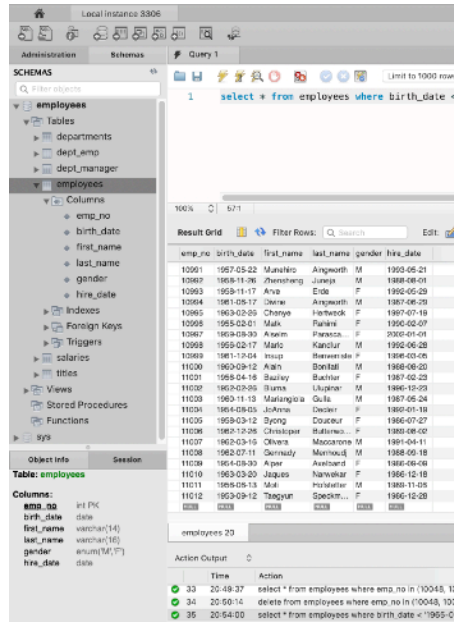
8. Delete all employee who have an emp\_no of 10048, 10099, 10234, and 20089.

```
delete from employees where emp_no in (10048, 10099, 10234, 20089);
```

## Screenshots of Queries:



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



Local Instance 3306

Administration Schemas Query 1

1 select \* from employees where birth\_date <

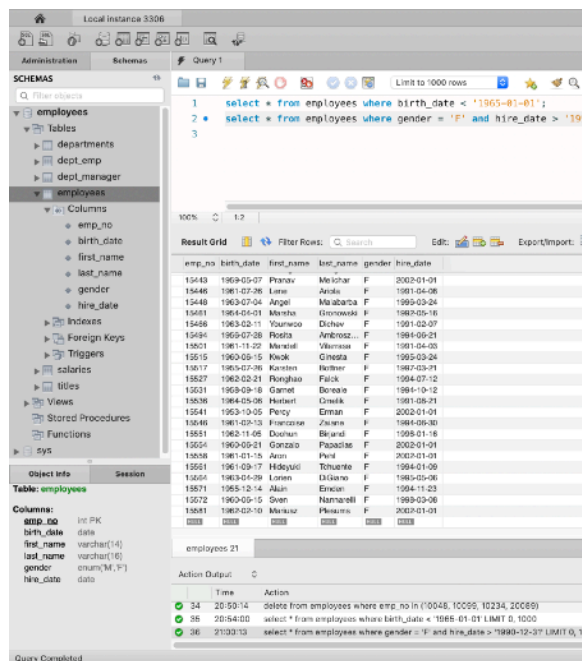
Result Grid

| emp_no | birth_date | first_name | last_name   | gender | hire_date  |
|--------|------------|------------|-------------|--------|------------|
| 10001  | 1957-05-02 | Munierio   | Angworth    | M      | 1993-06-21 |
| 10002  | 1959-11-06 | Arnschberg | Lawley      | M      | 1988-04-01 |
| 10003  | 1959-11-17 | Arns       | Edie        | F      | 1992-05-29 |
| 10004  | 1981-05-17 | Deane      | Angworth    | M      | 1987-06-29 |
| 10005  | 1963-02-05 | Chang      | Hartwood    | F      | 1997-07-19 |
| 10006  | 1955-02-01 | Muller     | Parsons     | F      | 1992-02-07 |
| 10007  | 1959-09-30 | Anselm     | Parsons     | F      | 2000-01-01 |
| 10008  | 1959-02-17 | Muller     | Kardul      | M      | 1992-06-28 |
| 10009  | 1981-12-04 | Issac      | Barnes      | F      | 1988-03-06 |
| 10010  | 1960-09-12 | Alan       | Bonifati    | M      | 1988-06-20 |
| 10011  | 1958-04-18 | Bailey     | Bathin      | F      | 1987-05-23 |
| 10012  | 1960-02-05 | Burns      | Ulaganathan | M      | 1986-12-09 |
| 10013  | 1960-11-13 | Martinez   | Gula        | M      | 1987-06-24 |
| 10014  | 1964-08-05 | Juarez     | Decker      | F      | 1989-01-18 |
| 10015  | 1959-03-12 | Strong     | Cournot     | F      | 1986-07-27 |
| 10016  | 1962-12-25 | Christina  | Bullman     | F      | 1989-08-00 |
| 10017  | 1962-03-15 | Oliver     | Maccaroni   | M      | 1991-04-11 |
| 10018  | 1962-07-11 | Ormsby     | Martinez    | M      | 1988-05-18 |
| 10019  | 1964-09-30 | Aper       | Axelrod     | F      | 1986-04-04 |
| 10020  | 1963-03-20 | Jacques    | Narveskar   | F      | 1986-12-18 |
| 10021  | 1959-05-13 | Muller     | Horvath     | M      | 1989-11-05 |
| 10022  | 1959-09-12 | Tsuyuki    | Speck       | F      | 1986-12-28 |

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Action Output

| Time     | Action  |
|----------|---|
| 20:49:37 | select * from employees where emp_no in (10048, 100   |
| 20:50:14 | delete from employees where emp_no in (10048, 1009    |
| 20:54:00 | select * from employees where birth_date < 1965-01-01 |



Local Instance 3306

Administration Schemas Query 1

1 select \* from employees where birth\_date < '1965-01-01';  
2 select \* from employees where gender = 'F' and hire\_date > '199

Result Grid

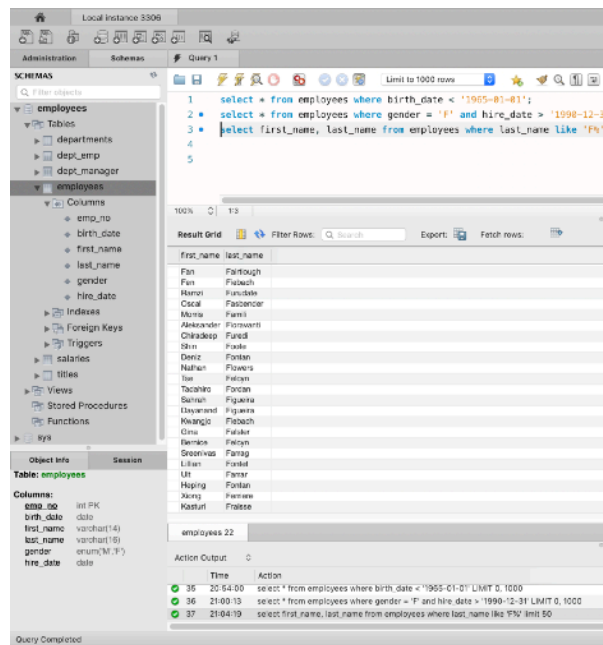
| emp_no | birth_date | first_name | last_name | gender | hire_date  |
|--------|------------|------------|-----------|--------|------------|
| 15443  | 1959-05-07 | Pranav     | Melchor   | F      | 2002-01-01 |
| 15446  | 1981-07-26 | Lara       | Ardis     | F      | 1991-04-06 |
| 15448  | 1963-07-24 | Angel      | Maabanza  | F      | 1999-03-24 |
| 15481  | 1964-05-01 | Manisha    | Eronowska | F      | 1987-05-16 |
| 15486  | 1963-02-11 | Younes     | Dichav    | F      | 1991-02-07 |
| 15494  | 1960-07-28 | Rosita     | Ambruso   | F      | 1991-09-21 |
| 15521  | 1981-11-22 | Meredith   | Wernicke  | F      | 1991-04-25 |
| 15515  | 1960-05-15 | Kwok       | Gnesta    | F      | 1995-03-24 |
| 15517  | 1965-07-26 | Karsten    | Reimer    | F      | 1987-03-31 |
| 15527  | 1960-02-31 | Rangshai   | Falk      | F      | 1994-07-12 |
| 15531  | 1959-09-18 | Garnet     | Bereale   | F      | 1994-10-12 |
| 15536  | 1964-05-06 | Heidi      | Orsick    | F      | 1991-08-21 |
| 15541  | 1959-10-05 | Percy      | Ennen     | F      | 2002-01-01 |
| 15546  | 1981-02-13 | Francine   | Zawacki   | F      | 1994-09-30 |
| 15551  | 1962-11-05 | Dorhan     | Brand     | F      | 1995-01-16 |
| 15554  | 1960-09-21 | Gonzalo    | Papadakis | F      | 2002-01-01 |
| 15558  | 1981-01-15 | Aron       | Pini      | F      | 2002-01-01 |
| 15561  | 1961-09-17 | Hedy       | Thuermer  | F      | 1994-01-09 |
| 15564  | 1963-01-19 | Loren      | Dickens   | F      | 1989-05-26 |
| 15571  | 1955-12-14 | Allan      | Ennen     | F      | 1994-11-23 |
| 15572  | 1960-05-15 | Gwen       | Namarelli | F      | 1999-03-06 |
| 15581  | 1967-02-10 | Melissa    | Plemons   | F      | 2002-01-01 |

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Action Output

| Time     | Action  |
|----------|---|
| 20:50:14 | delete from employees where emp_no in (10048, 10099, 10234, 20069)                |
| 20:54:00 | select * from employees where birth_date < 1965-01-01 LIMIT 0, 1000               |
| 21:03:13 | select * from employees where gender = 'F' and hire_date > 1999-12-31 LIMIT 0, 10 |

Query Completed



URL to GitHub Repository:

<https://github.com/dwold/Week7Assignment>