

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: In Eclipse, or an IDE of your choice, write the code that accomplishes the objectives listed below. Ensure that the code compiles and runs as directed. Take screenshots of the code and of the running program (make sure to get screenshots of all required functionality) 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
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 with Query Results:

Show all employees who were born before 1965-01-01

[illegible]

Show all employees who are female and were hired after 1990

[illegible]

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

Week7CodingAssignment* x

Limit to 100 rows

```
1 • SELECT *
2     FROM employees
3     WHERE birth_date < '1965-01-01';
4 • SELECT *
5     FROM employees
6     WHERE gender = 'F' AND hire_date >= '1991-01-01';
7 • SELECT first_name, last_name
8     FROM employees
9     WHERE last_name
10    LIKE 'F%' LIMIT 50;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows: |

	first_name	last_name
▶	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
	Otmar	Feinberg
	Unal	Fendler
	Yuchang	Francisci
	Chenyi	Feinberg
	Shim	Feldhoffer
	Ashish	Fortenbacher
	Fan	Fairtlough
	Fen	Fiebach
	Ramzi	Furudate
	Oscal	Fasbender
	Morris	Famili
	Aleksander	Fioravanti
	Chiradeep	Furedi

employees 4 x

Show the first and last name of the first 50 employees whose last name starts with F (cont...)

Result Grid		Filter Rows:	Export:	Wrap Cell Content:	Fetch rows:
first_name	last_name				
Hisao	Famili				
Lalit	Francisci				
Heejo	Frolund				
Otmar	Feinberg				
Unal	Fendler				
Yuchang	Francisci				
Chenyi	Feinberg				
Shim	Feldhoffer				
Ashish	Fortenbacher				
Fan	Fairtlough				
Fen	Fiebach				
Ramzi	Furudate				
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				
Jungsoon	Fiebach				

employees 4 x

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.

Week7CodingAssignment*

Limit to 100 rows

```
1 • SELECT *
2     FROM employees
3     WHERE birth_date < '1965-01-01';
4 • SELECT *
5     FROM employees
6     WHERE gender = 'F' AND hire_date >= '1991-01-01';
7 • SELECT first_name, last_name
8     FROM employees
9     WHERE last_name
10    LIKE 'F%' LIMIT 50;
11 • INSERT INTO employees
12     VALUES (100,'1976-03-08','Hines','Ward','M','1998-04-18'),(101,'1972-02-16','Jerome',
13     'Bettis','M','1996-04-20'),(102,'1982-03-02','Ben','Roethlisberger','M','2004-04-24');
14 • SELECT *
15     FROM employees
16     WHERE emp_no < 103;
```

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

	emp_no	birth_date	first_name	last_name	gender	hire_date
▶	100	1976-03-08	Hines	Ward	M	1998-04-18
	101	1972-02-16	Jerome	Bettis	M	1996-04-20
	102	1982-03-02	Ben	Roethlisberger	M	2004-04-24
•	NULL	NULL	NULL	NULL	NULL	NULL

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

[illegible]

Change all employees hire dates to 2002-01-01 whose first or last names start with P.

[illegible]

Delete all employees who have an emp_no less than 10000.

```
Week7CodingAssignment x
Limit to 100 rows
16 WHERE emp_no=10023;
17 • SELECT *
18 FROM employees
19 WHERE emp_no=10023;
20 • UPDATE employees
21 SET hire_date='2002-01-01'
22 WHERE first_name LIKE 'P%'
23 OR last_name LIKE 'P%';
24 • SELECT *
25 FROM employees
26 WHERE first_name LIKE 'P%'
27 OR last_name LIKE 'P%';
28 • DELETE
29 FROM employees
30 WHERE emp_no < 10000;
31 • SELECT *
32 FROM employees
33 WHERE emp_no < 10000;

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:
emp_no birth_date first_name last_name gender hire_date
* NULL NULL NULL NULL NULL NULL
```

Delete all employee who have an emp_no of 10048, 10099, 10234, and 20089. (showing them first)

```
Week7CodingAssignment x
```

```
Limit to 100 rows
```

```
19 WHERE emp_no=10023;
20 • UPDATE employees
21 SET hire_date='2002-01-01'
22 WHERE first_name LIKE 'P%'
23 OR last_name LIKE 'P%';
24 • SELECT *
25 FROM employees
26 WHERE first_name LIKE 'P%'
27 OR last_name LIKE 'P%';
28 • DELETE
29 FROM employees
30 WHERE emp_no < 10000;
31 • SELECT *
32 FROM employees
33 WHERE emp_no < 10000;
34 • SELECT *
35 FROM employees
36 WHERE emp_no IN (10048,10099,10234,20089);
```

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

	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 11 x
```

Delete all employee who have an emp_no of 10048, 10099, 10234, and 20089. (deleting then showing)

[illegible]

URL to GitHub Repository:

<https://github.com/jprengaman/BESD-Week7>