



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
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:

```
SELECT * FROM employees;
SELECT * FROM employees WHERE birth_date < '1965-01-01' ORDER BY birth_date DESC LIMIT 20;
SELECT * FROM employees WHERE gender = 'F' AND hire_date > 1990 ORDER BY hire_date DESC LIMIT 20;
SELECT first_name, last_name FROM employees WHERE last_name LIKE 'F%' LIMIT 50;

INSERT INTO employees VALUES(100, '1965-09-08', 'Tommy', 'Sanders', 'M', '2010-05-12'), (101, '1969-09-08', 'Taylor',
'Smith', 'F', '2011-06-12'), (102, '1987-09-08', 'Nathan', 'James', 'M', '2019-03-12');

SELECT * FROM employees WHERE emp_no = 10023;
UPDATE employees SET first_name = 'Bob' WHERE emp_no = 10023;
SELECT * FROM employees WHERE emp_no = 10023;

SELECT * FROM employees WHERE first_name LIKE 'P%' OR last_name LIKE 'P%';
SELECT * FROM employees;
UPDATE employees SET hire_date = '2002-01-01' WHERE first_name LIKE 'P%' OR last_name LIKE 'P%';
SELECT * FROM employees WHERE first_name LIKE 'P%' OR last_name LIKE 'P%' ORDER BY emp_no DESC LIMIT 20;
SELECT * FROM employees WHERE emp_no < 10000;
DELETE FROM employees WHERE emp_no < 10000;
SELECT * FROM employees WHERE emp_no < 10000;
SELECT * FROM employees WHERE emp_no = 10048 OR emp_no = 10099 OR emp_no = 10234 OR emp_no = 20089;
DELETE FROM employees WHERE emp_no = 10048 OR emp_no = 10099 OR emp_no = 10234 OR emp_no = 20089;
SELECT * FROM employees WHERE emp_no = 10048 OR emp_no = 10099 OR emp_no = 10234 OR emp_no = 20089;
```

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



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2 • OM employees WHERE birth_date < '1965-01-01' ORDER BY birth_date DESC LIMIT 20;

emp_no	birth_date	first_name	last_name	gender	hire_date
82357	1964-12-31	Eric	Fontan	F	1985-10-27
205989	1964-12-31	Przemyslaw	Heydon	M	1990-03-30
82268	1964-12-31	Giri	Mukaidono	M	1992-01-06
105550	1964-12-31	Youpyo	Gustavson	F	1991-12-19
99659	1964-12-31	Charlene	Waterhouse	M	1994-11-24
86260	1964-12-31	Aruna	Hartvigsen	M	1993-06-06
88242	1964-12-31	Mohit	Schapiro	F	1993-03-14
69992	1964-12-31	Takahiro	Sudbeck	M	1987-10-09
93196	1964-12-31	Jagoda	Lindenbaum	F	1985-08-07
15078	1964-12-31	Steen	Thiran	M	1993-04-13
45051	1964-12-31	Girolamo	Billawala	M	1995-06-09
63761	1964-12-31	Kwangsub	Mamelak	M	1994-10-05
79907	1964-12-31	Elliott	Emmart	F	1988-01-31
35251	1964-12-31	Sudhanshu	Gustavson	F	1991-07-08
38361	1964-12-31	Tonia	Comyn	M	1987-11-07
206317	1964-12-31	Manton	Fargier	F	1992-05-01
57129	1964-12-31	Shai	Navazio	F	1985-07-30
103212	1964-12-31	Khatoun	Bratten	M	1992-04-29
33385	1964-12-31	Nalini	Feldhoffer	F	1990-08-04
102505	1964-12-31	Zejun	Krychniak	M	1989-02-23



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3 • `SELECT * FROM employees WHERE gender = 'F' AND hire_date > 1990 ORDER BY hire_date DESC LIMIT 20;`

<						
Result Grid						
Filter Rows: <input type="text"/>						
Edit:						
Export/Import:						
Wrap Cell Content:						
	emp_no	birth_date	first_name	last_name	gender	hire_date
▶	499553	1954-05-06	Hideyuki	Delgrande	F	2000-01-22
	222965	1959-08-07	Volkmar	Perko	F	2000-01-13
	422990	1953-04-09	Jaana	Verspoor	F	2000-01-11
	205048	1960-09-12	Ennio	Alblas	F	2000-01-06
	226633	1958-06-10	Xuejun	Benzmuller	F	2000-01-04
	60134	1964-04-21	Seshu	Rathonyi	F	2000-01-02
	72329	1953-02-09	Randi	Luit	F	2000-01-02
	13246	1952-06-09	Adil	Siepmann	F	1999-12-31
	242381	1952-05-14	Garnik	Kolvik	F	1999-12-30
	71159	1952-07-19	Manton	Ghemri	F	1999-12-30
	220951	1957-10-14	Mang	Kohling	F	1999-12-28
	243702	1961-10-04	Munehiro	Luke	F	1999-12-24
	90996	1960-07-03	Dannz	Kamble	F	1999-12-18
	292805	1963-08-13	Jacqueline	Hoogerw...	F	1999-12-16
	441722	1958-12-01	Gonzalo	Aamodt	F	1999-12-15
	482240	1959-06-08	Guozhong	Renear	F	1999-12-12
	75674	1963-09-12	Mabry	Kavanagh	F	1999-12-11
	48358	1962-07-03	Branimir	Syang	F	1999-12-11
	100943	1953-02-24	Tuval	Merk	F	1999-12-10
	93122	1957-11-20	Nobuyoshi	Greibach	F	1999-12-10
•	NULL	NULL	NULL	NULL	NULL	NULL



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4 • `SELECT first_name, last_name FROM employees WHERE last_name LIKE 'F%' LIMIT 50`

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

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



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Result Grid



Filter Rows:

first_name	last_name
Otnar	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

employees 6 ×

Gina	Falster
Bernice	Felcyn
Sreenivas	Farrag
Lillian	Fontet
Ult	Farrar
Heping	Hee-an
Xiong	Ferriere
Kasturi	Fraisse



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	emp_no	birth_date	first_name	last_name	gender	hire_date
▶	100	1965-09-08	Tommy	Sanders	M	2010-05-12
	101	1969-09-08	Taylor	Smith	F	2011-06-12
	102	1987-09-08	Nathan	James	M	2019-03-12
*	NULL	NULL	NULL	NULL	NULL	NULL

```
8 • UPDATE employees SET first_name = 'Bob' WHERE emp_no = 10023;
9 • SELECT * FROM employees WHERE emp_no = 10023;
10
```

Result Grid



Filter Rows:

Edit:



Export/Import:



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



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Result Grid | Filter Rows: | Edit: Export/Import

	emp_no	birth_date	first_name	last_name	gender	hire_date
▶	499998	1956-09-05	Patricia	Breugel	M	2002-01-01
	499991	1962-02-26	Pohua	Sichman	F	2002-01-01
	499982	1954-08-25	Mohammed	Pleszkun	M	2002-01-01
	499979	1962-10-29	Prasadram	Waleschkowski	M	2002-01-01
	499974	1956-09-10	Shuichi	Piazza	F	2002-01-01
	499953	1960-09-04	Leszek	Pulkowski	M	2002-01-01
	499948	1953-05-24	Cordelia	Paludetto	M	2002-01-01
	499937	1955-07-28	Pantung	Litzler	F	2002-01-01
	499935	1963-12-18	Ymte	Perelgut	M	2002-01-01
	499929	1959-11-03	Phillip	Schnabel	M	2002-01-01
	499926	1956-10-15	Youpyo	Perfilyeva	F	2002-01-01
	499912	1956-06-19	Parke	Pell	F	2002-01-01
	499903	1959-06-30	Premal	Passino	M	2002-01-01
	499873	1960-12-10	Kasidit	Picel	F	2002-01-01
	499870	1955-03-14	Kayoko	Peroz	M	2002-01-01
	499859	1962-05-20	Huican	Passafiume	F	2002-01-01
	499849	1954-10-12	Moriyoshi	Pusterhofer	F	2002-01-01
	499838	1959-09-07	Annemarie	Peroz	M	2002-01-01
	499817	1953-08-03	Lihong	Pusterhofer	M	2002-01-01
	499808	1955-04-05	Paris	Deyuan	F	2002-01-01
*	NULL	NULL	NULL	NULL	NULL	NULL

5 • SELECT * FROM employees WHERE emp_no < 10000;

6 • DELETE FROM employees WHERE emp_no < 10000;

7 • SELECT * FROM employees WHERE emp_no < 10000;

Result Grid | Filter Rows: | Edit: Export/Import

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



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```
8 • SELECT * FROM employees WHERE emp_no = 10048 OR emp_no = 10099 OR emp_no = 10234 OR emp_no = 20089;  
9 • DELETE FROM employees WHERE emp_no = 10048 OR emp_no = 10099 OR emp_no = 10234 OR emp_no = 20089;  
10 • SELECT * FROM employees WHERE emp_no = 10048 OR emp_no = 10099 OR emp_no = 10234 OR emp_no = 20089;  
11 |
```

Result Grid		Filter Rows: <input type="text"/>	Edit:	Export/Import:	Wrap Cell Content:
emp_no	birth_date	first_name	last_name	gender	hire_date
NULL	NULL	NULL	NULL	NULL	NULL

URL to GitHub Repository:

<https://github.com/azshjones12/Week-1-SQL-Coding-Assignment.git>