

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

```
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 > '1989-12-31';
```

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

```
SELECT * 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 (emp_no, birth_date, first_name, last_name, hire_date)
VALUES ('100', '1961-07-14', 'Kitty', 'Running', '2015-03-19'),
('101', '1963-08-12', 'Sally', 'Feilds', '2017-06-09'),
('102', '1959-01-23', 'Dale', 'Dumpling', '2010-10-23');
```

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

```
UPDATE employees SET first_name = 'Bob'
WHERE emp_no = 10023;
```

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

```
UPDATE employees SET hire_date = '2002-01-01'
WHERE first_name LIKE 'P%';
```

6. 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 = '10048';
DELETE FROM employees
```

WHERE emp_no = '10099';

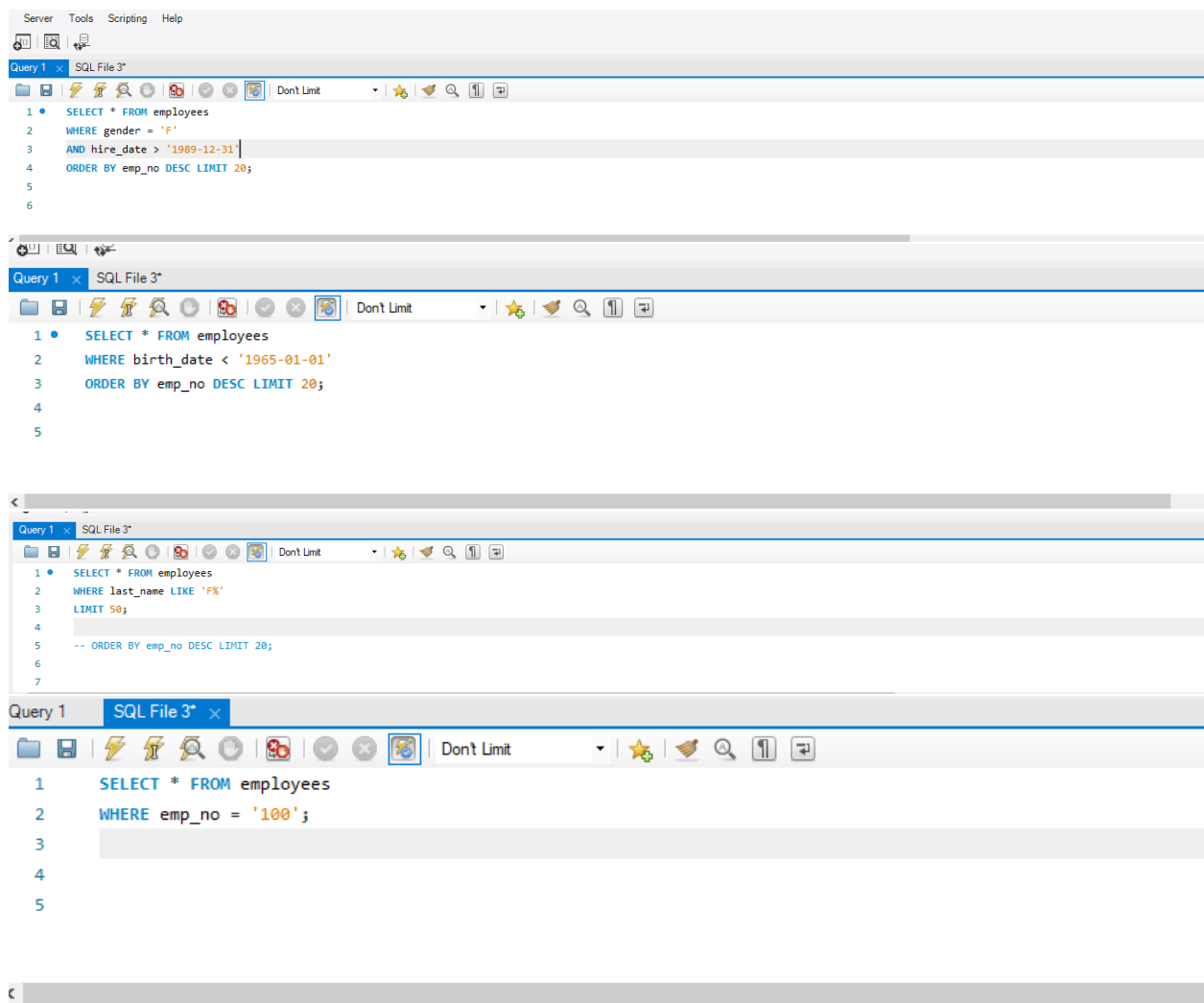
DELETE FROM employees

WHERE emp_no = '10234';

DELETE FROM employees

WHERE emp_no = '20089';

Screenshots of Queries:



```
1 SELECT * FROM employees
2 WHERE emp_no = '102';
3
4
5
```

Result Grid

emp_no	birth_date	first_name	last_name	gender	hire_date
102	1959-01-23	Dale	Dumpling	M	2010-10-23
* NULL	NULL	NULL	NULL	NULL	NULL

date

employees 10 x

Output

Action Output

#	Time	Action	Message
✓ 1	18:48:39	SELECT * FROM employees WHERE emp_no = '100'	1 row(s) returned
✓ 2	18:48:47	SELECT * FROM employees WHERE emp_no = '101'	1 row(s) returned
✓ 3	18:48:57	SELECT * FROM employees WHERE emp_no = '102'	1 row(s) returned

```
1 UPDATE employees SET first_name = 'Bob'
2 WHERE emp_no = 10023;
3 SELECT * FROM employees
4 WHERE emp_no = '10023';
5
6
7
```

```
1 UPDATE employees SET hire_date = '2002-01-01'
2 WHERE first_name LIKE 'P%';
3 SELECT * FROM employees
4 WHERE first_name LIKE 'P%';
5
6
7
```

Query 1 SQL File 3

1 • DELETE FROM employees
2 WHERE emp_no = '10048';
3 • DELETE FROM employees
4 WHERE emp_no = '10099';
5 • DELETE FROM employees
6 WHERE emp_no = '10234';
7 • DELETE FROM employees
8 WHERE emp_no = '20089';
9
10
11

Automatic caret disabled. Use manually get current caret toggle auto

Output

#	Time	Action	Message	Duration
3	18:50:53	UPDATE employees SET hire_date = '2002-01-01' WHERE first_name LIKE 'P%'	10247 row(s) affected Rows matched: 10247 Changed: 10247 Warnings: 0	0.57
4	18:50:53	SELECT * FROM employees WHERE first_name LIKE 'P%'	10247 row(s) returned	0.03
5	18:51:52	DELETE FROM employees WHERE emp_no = '10048'	1 row(s) affected	0.00
6	18:51:52	DELETE FROM employees WHERE emp_no = '10099'	1 row(s) affected	0.00
7	18:51:52	DELETE FROM employees WHERE emp_no = '10234'	1 row(s) affected	0.00
8	18:51:52	DELETE FROM employees WHERE emp_no = '20089'	1 row(s) affected	0.00

Query 1 SQL File 3

1 • DELETE FROM employees
2 WHERE emp_no < 10000;
3 • SELECT * FROM employees
4 WHERE emp_no < 10000;
5
6

Result Grid

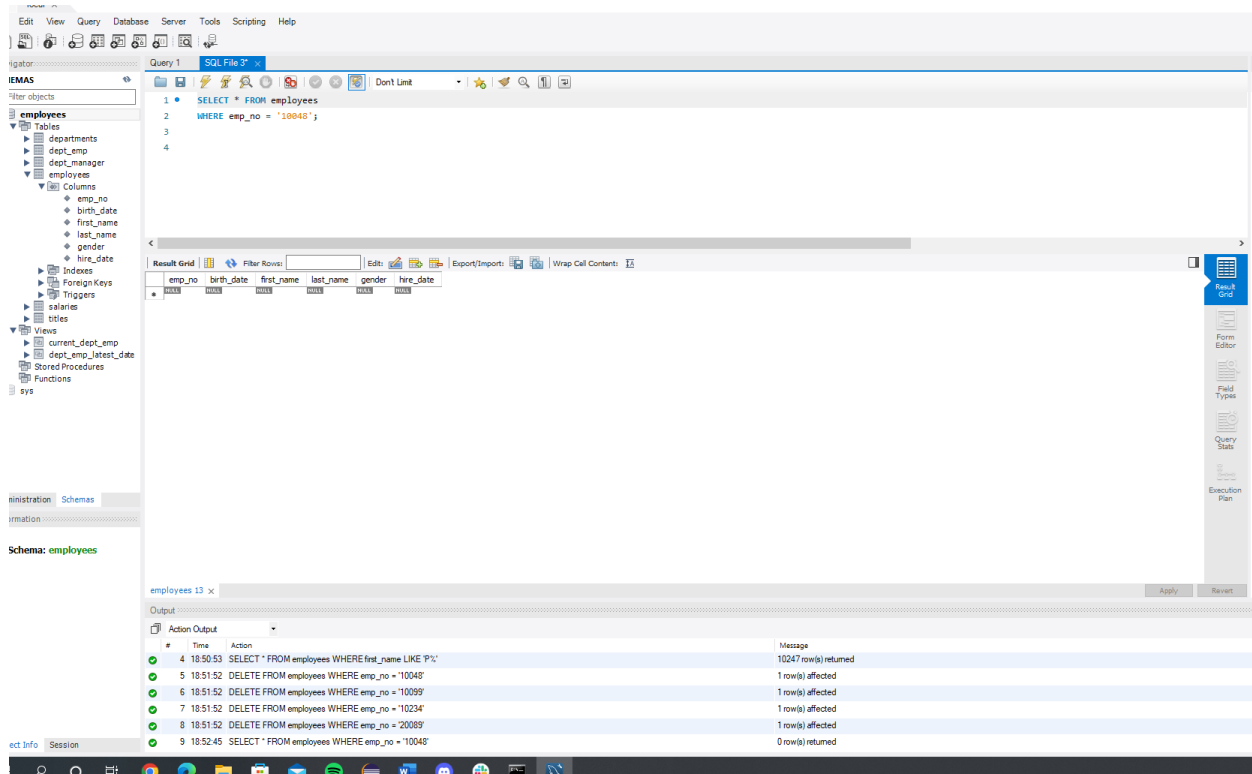
emp_no	birth_date	first_name	last_name	gender	hire_date
1					

Result Grid
Form Editor
Field Types
Query Stats
Execution Plan

employees 14 x

Output

#	Time	Action	Message
1	19:11:04	DELETE FROM employees WHERE emp_no < 10000	3 row(s) affected
2	19:11:04	SELECT * FROM employees WHERE emp_no < 10000	0 row(s) returned



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

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

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

employees 1

Output

Action Output

#	Time	Action	Message
1	18:42:43	SELECT * FROM employees WHERE birth_date < '1965-01-01' ORDER BY emp_no DESC LIMIT 20	20 row(s) returned

Result Grid

Filter Rows:

Edit:

Export/Import:

Wrap Cell Content:

emp_no	birth_date	first_name	last_name	gender	hire_date
499995	1958-09-24	Dekang	Lichtner	F	1993-01-12
499994	1952-02-26	Navin	Argence	F	1990-04-24
499987	1961-09-05	Rimli	Dusink	F	1998-09-20
499981	1955-01-02	Yunming	Mitina	F	1991-03-07
499977	1956-06-05	Martial	Weisert	F	1996-09-17
499956	1959-01-08	Zhonghua	Crooks	F	1994-10-12
499950	1964-07-15	Weidon	Gente	F	1991-06-05
499942	1963-01-10	Feiyu	Sanella	F	1997-02-10
499941	1956-10-16	Udaiprakash	Hockney	F	1994-02-04
499938	1960-06-30	JiYoung	Binding	F	1993-04-18
499934	1957-02-19	Tonia	Butner	F	1991-01-02
499933	1957-10-21	Chuant	Riesenh...	F	1993-05-28
499932	1962-05-19	Shigeaki	Narlikar	F	1990-09-27
499923	1964-12-21	Sergi	Melton	F	1993-04-08
499916	1962-01-09	Florina	Cusworth	F	1997-05-18
499914	1952-03-04	Khoa	Keirse	F	1990-12-04
499912	1956-06-19	Parke	Pell	F	1993-10-23
499910	1957-11-07	Doowon	Versino	F	1991-12-22
499902	1952-07-31	Aloke	Wuwongse	F	1991-06-18
499894	1957-04-25	Maja	Lamba	F	1990-06-10
NULL	NULL	NULL	NULL	NULL	NULL

employees 2

Output

Action Output

#	Time	Action	Message
1	18:44:04	SELECT * FROM employees WHERE gender = 'F' AND hire_date > '1989-12-31' ORDER BY emp_no DESC LIMIT 20	20 row(s) returned

Result Grid

Filter Rows:

Edit: Export/Import: Wrap Cell Content:

emp_no	birth_date	first_name	last_name	gender	hire_date
10811	1954-06-29	Ashish	Fortenbacher	M	1997-07-08
10825	1958-03-27	Fan	Fairtough	M	1985-12-30
10830	1954-08-17	Fen	Fiebach	M	1991-08-24
10890	1963-04-13	Ramzi	Furudate	M	1988-04-21
10912	1952-07-27	Oscal	Fasbender	M	1986-04-23
10935	1961-08-09	Morris	Famili	M	1990-03-09
10940	1953-01-07	Aleksander	Fioravanti	F	1994-12-02
10985	1952-05-31	Chiradeep	Furedi	F	1990-12-10
10990	1954-10-22	Shin	Footte	M	1988-07-06
11082	1962-07-26	Deniz	Fontan	M	1992-12-01
11095	1961-12-31	Nathan	Flowers	M	1994-05-28
11114	1955-09-08	Tse	Felcyn	M	1989-10-14
11197	1955-05-11	Tadahiro	Fordan	M	1986-04-13
11220	1962-06-25	Sahrah	Figueira	F	1989-11-24
11227	1956-01-31	Dayanand	Figueira	M	1985-03-08
11263	1961-09-09	Kwangio	Fiebach	M	1989-08-15
11270	1962-10-10	Gina	Falster	M	1988-09-28
11284	1961-03-25	Bernice	Felcyn	M	1985-04-25
11287	1963-08-16	Sreenivas	Farrag	M	1987-08-12
11300	1952-12-14	Lillian	Fontet	M	1992-09-10
11316	1963-11-02	Ult	Farrar	F	1997-07-18
11321	1959-06-25	Heping	Fontan	M	1995-03-18
11328	1958-10-13	Xiong	Ferriere	M	1986-08-08
11331	1959-10-15	Kasturi	Fraisse	F	1987-03-03

employees 3

Output

Action Output

#	Time	Action	Message
1	18:45:32	SELECT * FROM employees WHERE last_name LIKE 'F%'; LIMIT 50	50 row(s) returned

Result Grid

Filter Rows:

Edit: Export/Import: Wrap Cell Content:

emp_no	birth_date	first_name	last_name	gender	hire_date
100	1961-07-14	Kitty	Running	M	2015-03-19

employees 8

Output

Action Output

#	Time	Action	Message
1	18:48:39	SELECT * FROM employees WHERE emp_no = '100'	1 row(s) returned

1 SELECT * FROM employees
2 WHERE emp_no = '101';
3
4
5

Result Grid

emp_no	birth_date	first_name	last_name	gender	hire_date
101	1963-08-12	Sally	Felds	M	2017-06-09

employees 9 x

Output

Action Output

#	Time	Action	Message
1	18:48:39	SELECT * FROM employees WHERE emp_no = '100'	1 row(s) returned
2	18:48:47	SELECT * FROM employees WHERE emp_no = '101'	1 row(s) returned

Result Grid

emp_no	birth_date	first_name	last_name	gender	hire_date
10023	1953-09-29	Bob	Montemayor	F	1989-12-17

employees 11 x

Output

Action Output

#	Time	Action	Message
1	18:49:58	UPDATE employees SET first_name = 'Bob' WHERE emp_no = 10023	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0
2	18:49:58	SELECT * FROM employees WHERE emp_no = '10023'	1 row(s) returned

The screenshot displays the SQL Server Enterprise Manager interface. On the left, the 'Object Explorer' shows the 'employees' table under the 'sys' schema. The 'Query 1' window shows a SQL query: `DELETE FROM employees WHERE emp_no = '10048';`. The 'Results' pane shows the execution plan, which is a simple 'Table Scan' operation. The 'Messages' pane shows the execution output, indicating that 1 row(s) were affected by the DELETE statement.

Query 1

```

1  SELECT * FROM employees
2  WHERE emp_no = '10048';
3
4

```

Results

emp_no	birth_date	first_name	last_name	gender	hire_date
10048	1963-06-26	Heather	Donovan	F	1993-07-29

Execution Plan

employees 13 x

Output

Action Output

#	Time	Action	Message
4	18:50:53	SELECT * FROM employees WHERE first_name LIKE 'P%'	10247 row(s) returned
5	18:51:52	DELETE FROM employees WHERE emp_no = '10048'	1 row(s) affected
6	18:51:52	DELETE FROM employees WHERE emp_no = '10099'	1 row(s) affected
7	18:51:52	DELETE FROM employees WHERE emp_no = '10234'	1 row(s) affected
8	18:51:52	DELETE FROM employees WHERE emp_no = '20089'	1 row(s) affected
9	18:52:45	SELECT * FROM employees WHERE emp_no = '10048'	0 row(s) returned