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 > '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(101, '2000-01-02', 'Fred', 'Fultz', 'M', '2020-04-01');
insert into employees VALUES(102, '2000-02-02', 'Mary', 'Wilson', 'F', '2020-05-01');
insert into employees VALUES(103, '2000-03-02', 'Mark', 'Watson', 'M', '2020-05-09');
```

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 = '2020-01-01' WHERE first_name LIKE 'P%' OR last_name LIKE 'P%';
```

7. Delete all employees who have an emp_no less than 10000

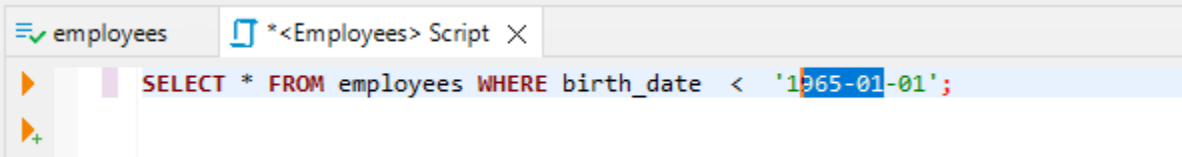
```
DELETE FROM employees WHERE emp_no < 10000;
```

8. Delete all employee who have an emp_no of 10048, 10099, 10234, and 20089.

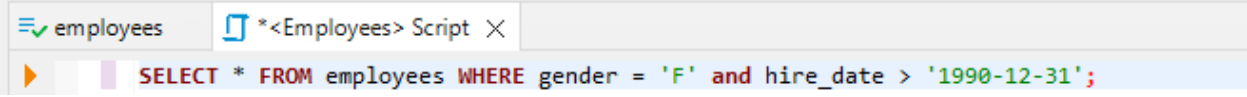
```
DELETE FROM employees WHERE emp_no = 10048 OR emp_no = 10099 OR emp_no = 10234 or emp_no = 20089;
```

Screenshots of Queries:

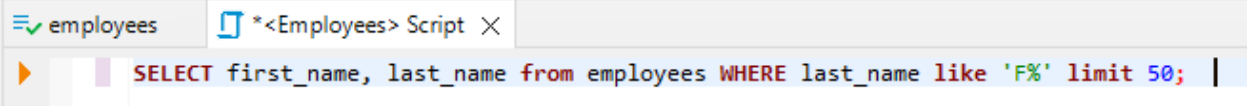
1.



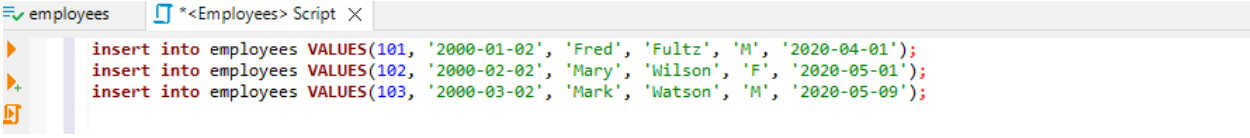
2.



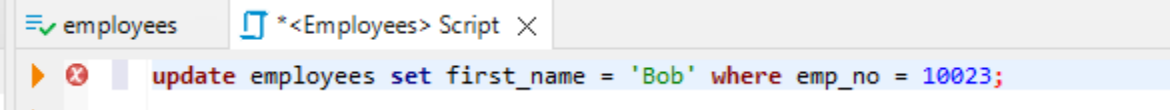
3.



4.



5.



6.

```
employees | *<Employees> Script
UPDATE employees SET hire_date = '2020-01-01' WHERE first_name LIKE 'P%' OR last_name LIKE 'P%';
```

7.

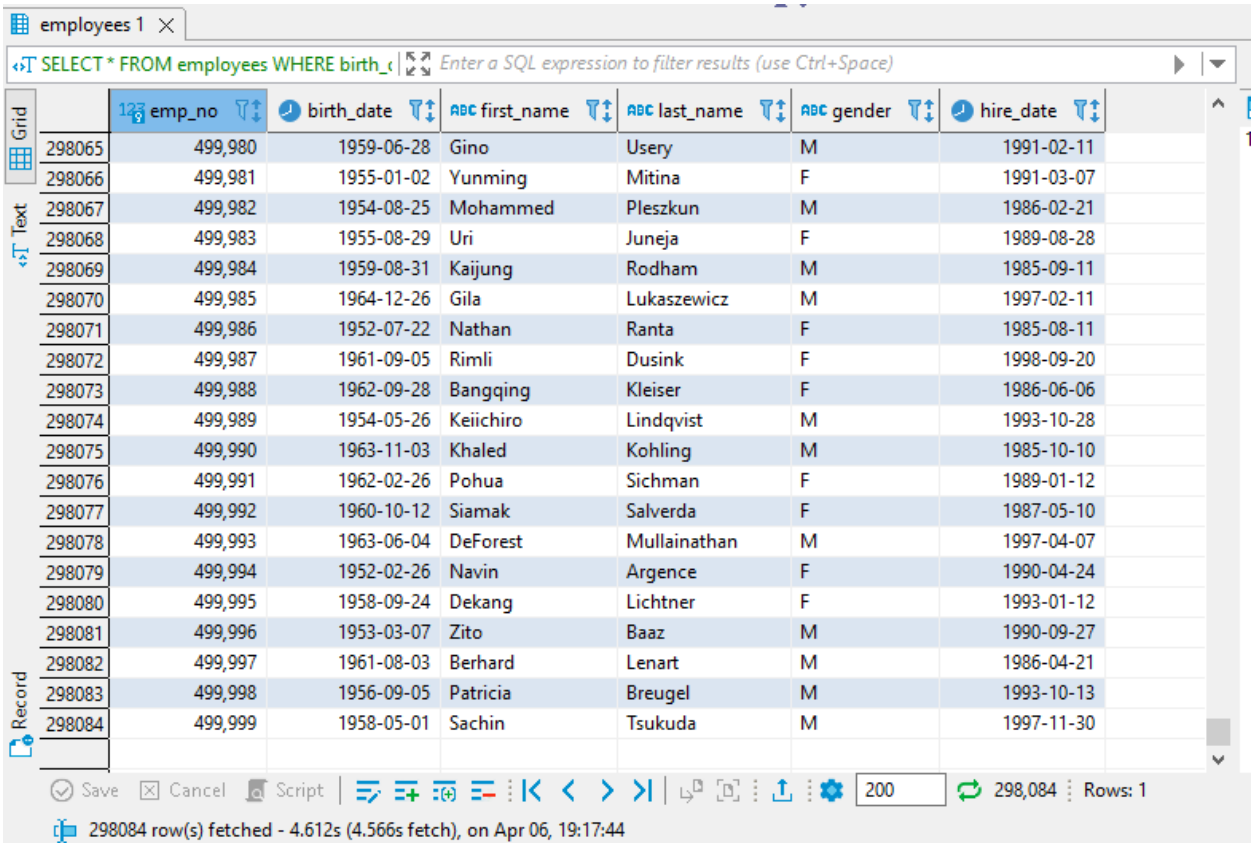
```
employees | *<Employees> Script
DELETE FROM employees WHERE emp_no < 10000;
```

8.

```
employees | *<Employees> Script
DELETE 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):

1.



employees 1

SELECT * FROM employees WHERE birth_(| Enter a SQL expression to filter results (use Ctrl+Space)

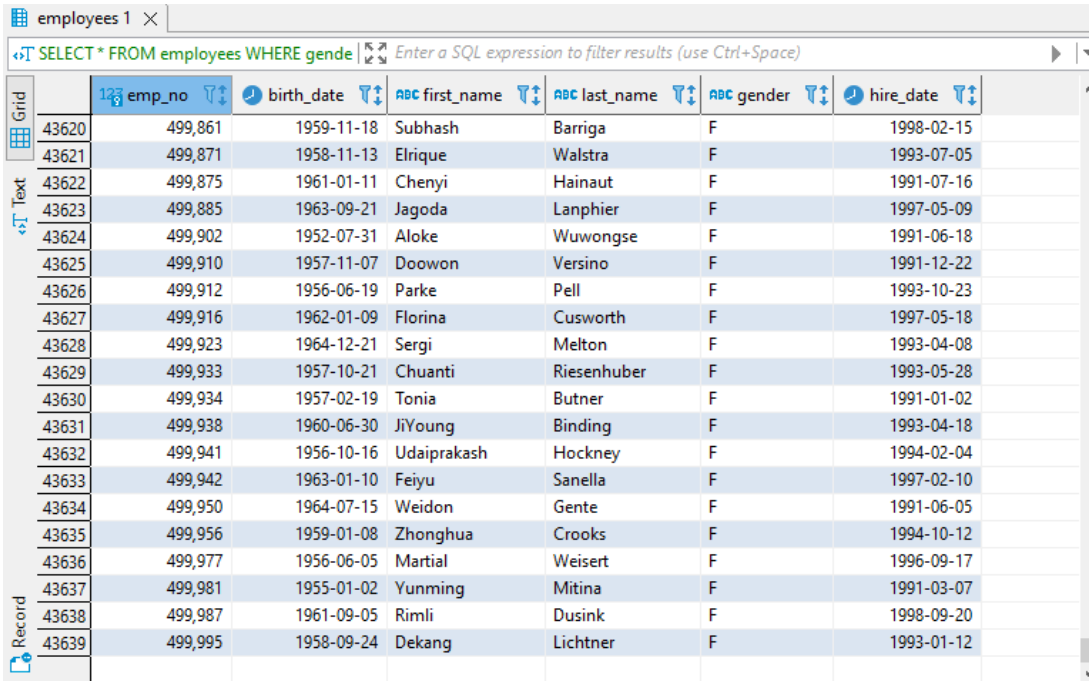
	emp_no	birth_date	first_name	last_name	gender	hire_date
298065	499,980	1959-06-28	Gino	Usery	M	1991-02-11
298066	499,981	1955-01-02	Yunming	Mitina	F	1991-03-07
298067	499,982	1954-08-25	Mohammed	Pleszkun	M	1986-02-21
298068	499,983	1955-08-29	Uri	Juneja	F	1989-08-28
298069	499,984	1959-08-31	Kaijung	Rodham	M	1985-09-11
298070	499,985	1964-12-26	Gila	Lukaszewicz	M	1997-02-11
298071	499,986	1952-07-22	Nathan	Ranta	F	1985-08-11
298072	499,987	1961-09-05	Rimli	Dusink	F	1998-09-20
298073	499,988	1962-09-28	Bangqing	Kleiser	F	1986-06-06
298074	499,989	1954-05-26	Keiichiro	Lindqvist	M	1993-10-28
298075	499,990	1963-11-03	Khaled	Kohling	M	1985-10-10
298076	499,991	1962-02-26	Pohua	Sichman	F	1989-01-12
298077	499,992	1960-10-12	Siamak	Salverda	F	1987-05-10
298078	499,993	1963-06-04	DeForest	Mullainathan	M	1997-04-07
298079	499,994	1952-02-26	Navin	Argence	F	1990-04-24
298080	499,995	1958-09-24	Dekang	Lichtner	F	1993-01-12
298081	499,996	1953-03-07	Zito	Baaz	M	1990-09-27
298082	499,997	1961-08-03	Berhard	Lenart	M	1986-04-21
298083	499,998	1956-09-05	Patricia	Breugel	M	1993-10-13
298084	499,999	1958-05-01	Sachin	Tsukuda	M	1997-11-30

Grid | Text | Record

Save | Cancel | Script | 200 | 298,084 | Rows: 1

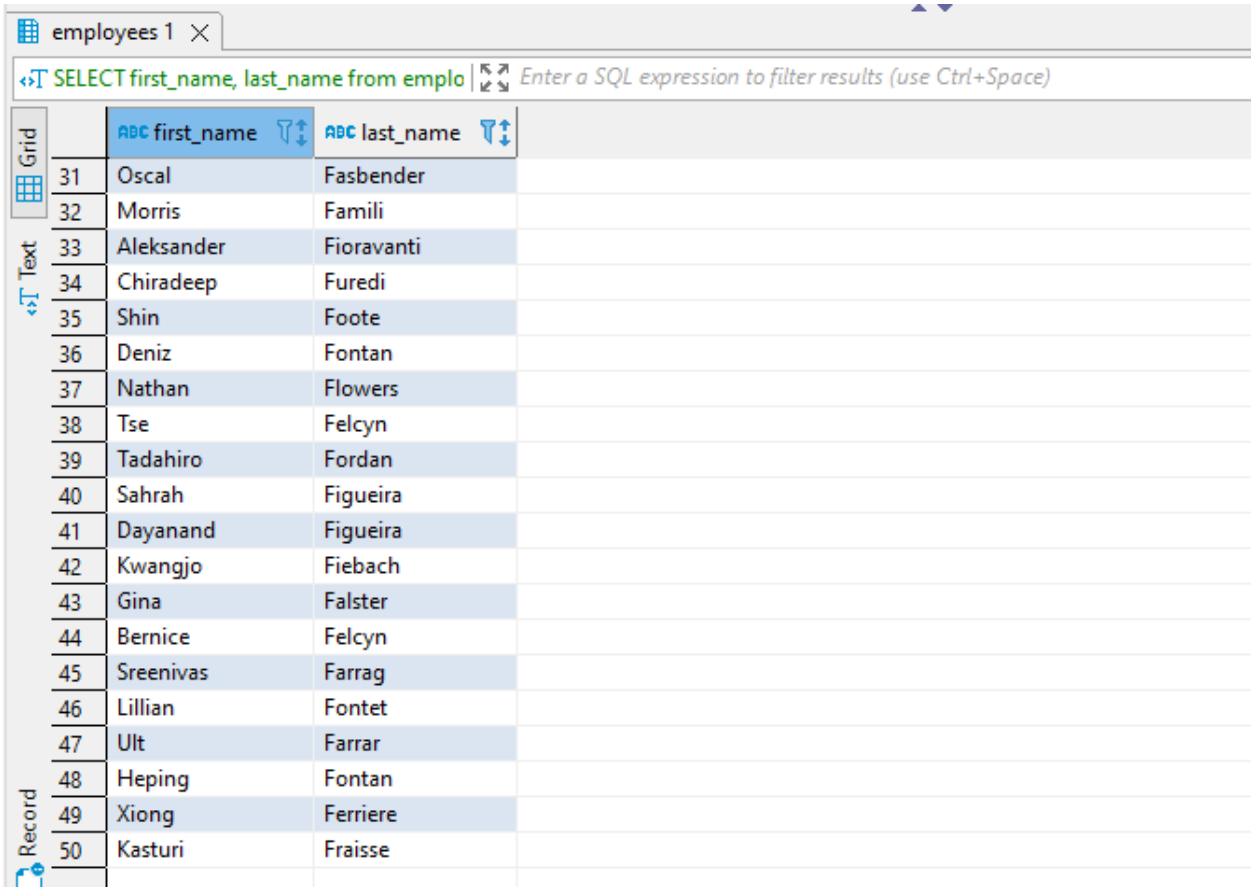
298084 row(s) fetched - 4.612s (4.566s fetch), on Apr 06, 19:17:44

2.



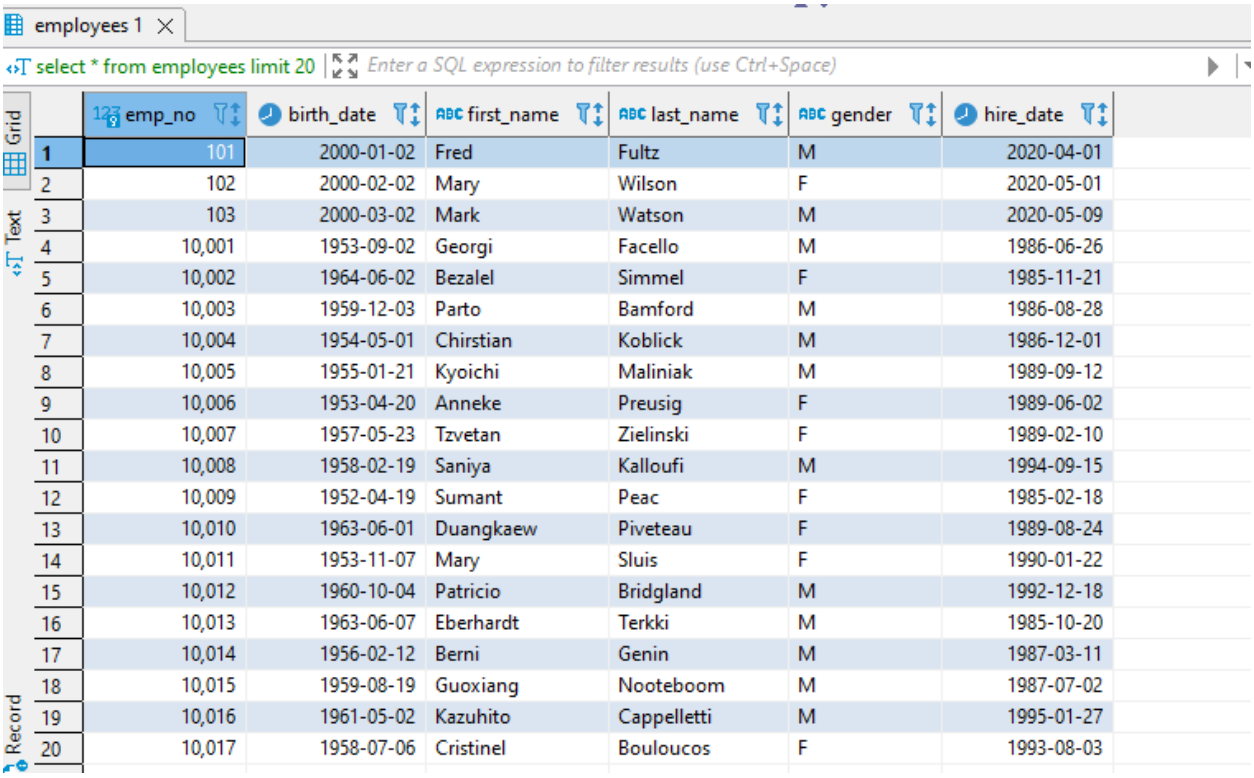
	emp_no	birth_date	first_name	last_name	gender	hire_date
43620	499,861	1959-11-18	Subhash	Barriga	F	1998-02-15
43621	499,871	1958-11-13	Elrique	Walstra	F	1993-07-05
43622	499,875	1961-01-11	Chenyi	Hainaut	F	1991-07-16
43623	499,885	1963-09-21	Jagoda	Lanphier	F	1997-05-09
43624	499,902	1952-07-31	Aloke	Wuwongse	F	1991-06-18
43625	499,910	1957-11-07	Doowon	Versino	F	1991-12-22
43626	499,912	1956-06-19	Parke	Pell	F	1993-10-23
43627	499,916	1962-01-09	Florina	Cusworth	F	1997-05-18
43628	499,923	1964-12-21	Sergi	Melton	F	1993-04-08
43629	499,933	1957-10-21	Chuanti	Riesenhuber	F	1993-05-28
43630	499,934	1957-02-19	Tonia	Butner	F	1991-01-02
43631	499,938	1960-06-30	JiYoung	Binding	F	1993-04-18
43632	499,941	1956-10-16	Udaiprakash	Hockney	F	1994-02-04
43633	499,942	1963-01-10	Feiyu	Sanella	F	1997-02-10
43634	499,950	1964-07-15	Weidon	Gente	F	1991-06-05
43635	499,956	1959-01-08	Zhonghua	Crooks	F	1994-10-12
43636	499,977	1956-06-05	Martial	Weisert	F	1996-09-17
43637	499,981	1955-01-02	Yunming	Mitina	F	1991-03-07
43638	499,987	1961-09-05	Rimli	Dusink	F	1998-09-20
43639	499,995	1958-09-24	Dekang	Lichtner	F	1993-01-12

3.



	first_name	last_name
31	Oscal	Fasbender
32	Morris	Famili
33	Aleksander	Fioravanti
34	Chiradeep	Furedi
35	Shin	Foote
36	Deniz	Fontan
37	Nathan	Flowers
38	Tse	Felcyn
39	Tadahiro	Fordan
40	Sahrah	Figueira
41	Dayanand	Figueira
42	Kwangjo	Fiebach
43	Gina	Falster
44	Bernice	Felcyn
45	Sreenivas	Farrag
46	Lillian	Fontet
47	Ult	Farrar
48	Heping	Fontan
49	Xiong	Ferriere
50	Kasturi	Fraisse

4.



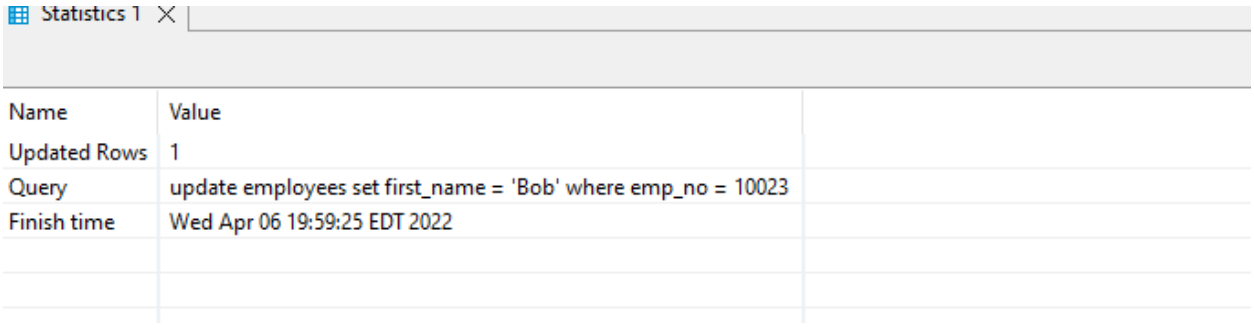
employees 1

```
select * from employees limit 20
```

Enter a SQL expression to filter results (use Ctrl+Space)

	emp_no	birth_date	first_name	last_name	gender	hire_date
1	101	2000-01-02	Fred	Fultz	M	2020-04-01
2	102	2000-02-02	Mary	Wilson	F	2020-05-01
3	103	2000-03-02	Mark	Watson	M	2020-05-09
4	10,001	1953-09-02	Georgi	Facello	M	1986-06-26
5	10,002	1964-06-02	Bezalel	Simmel	F	1985-11-21
6	10,003	1959-12-03	Parto	Bamford	M	1986-08-28
7	10,004	1954-05-01	Chirstian	Koblick	M	1986-12-01
8	10,005	1955-01-21	Kyoichi	Maliniak	M	1989-09-12
9	10,006	1953-04-20	Anneke	Preusig	F	1989-06-02
10	10,007	1957-05-23	Tzvetan	Zielinski	F	1989-02-10
11	10,008	1958-02-19	Saniya	Kalloufi	M	1994-09-15
12	10,009	1952-04-19	Sumant	Peac	F	1985-02-18
13	10,010	1963-06-01	Duangkaew	Piveteau	F	1989-08-24
14	10,011	1953-11-07	Mary	Sluis	F	1990-01-22
15	10,012	1960-10-04	Patricio	Bridgland	M	1992-12-18
16	10,013	1963-06-07	Eberhardt	Terkki	M	1985-10-20
17	10,014	1956-02-12	Berni	Genin	M	1987-03-11
18	10,015	1959-08-19	Guoxiang	Nooteboom	M	1987-07-02
19	10,016	1961-05-02	Kazuhito	Cappelletti	M	1995-01-27
20	10,017	1958-07-06	Cristinel	Bouloucos	F	1993-08-03

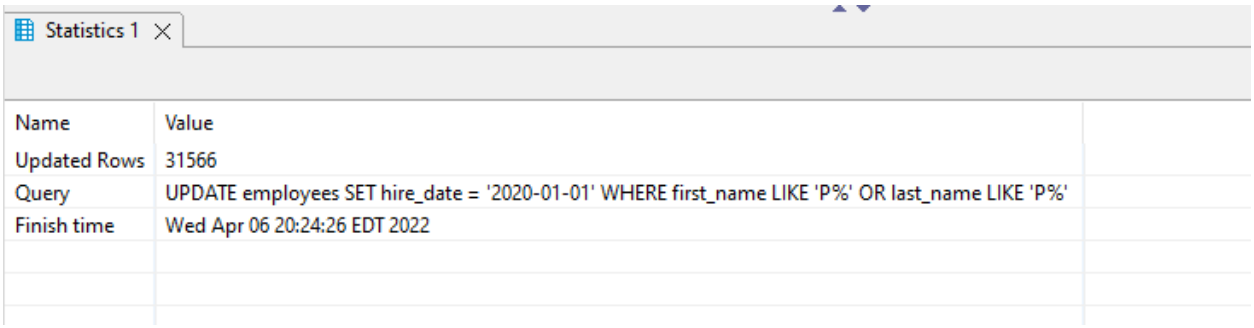
5.



Statistics 1

Name	Value
Updated Rows	1
Query	update employees set first_name = 'Bob' where emp_no = 10023
Finish time	Wed Apr 06 19:59:25 EDT 2022

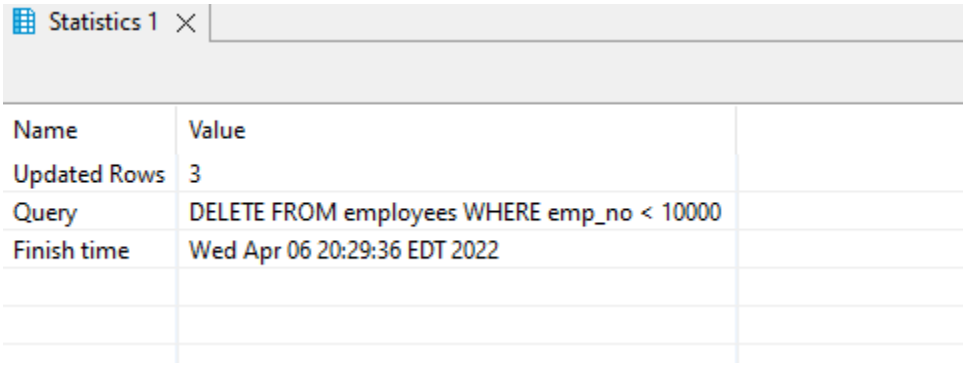
6.



Statistics 1

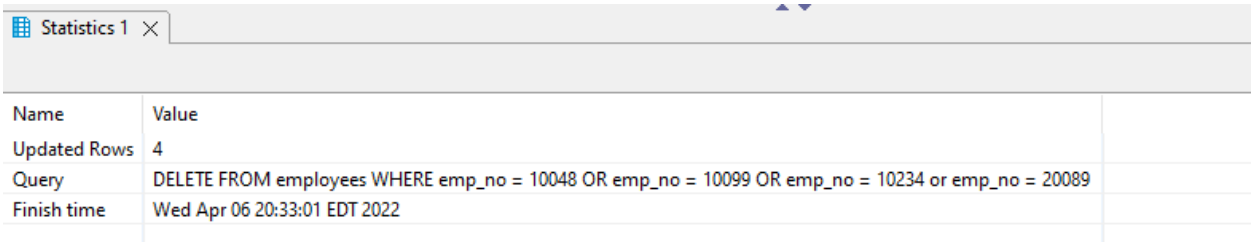
Name	Value
Updated Rows	31566
Query	UPDATE employees SET hire_date = '2020-01-01' WHERE first_name LIKE 'P%' OR last_name LIKE 'P%'
Finish time	Wed Apr 06 20:24:26 EDT 2022

7.



Name	Value
Updated Rows	3
Query	DELETE FROM employees WHERE emp_no < 10000
Finish time	Wed Apr 06 20:29:36 EDT 2022

8.



Name	Value
Updated Rows	4
Query	DELETE FROM employees WHERE emp_no = 10048 OR emp_no = 10099 OR emp_no = 10234 or emp_no = 20089
Finish time	Wed Apr 06 20:33:01 EDT 2022

URL to GitHub Repository: