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

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.

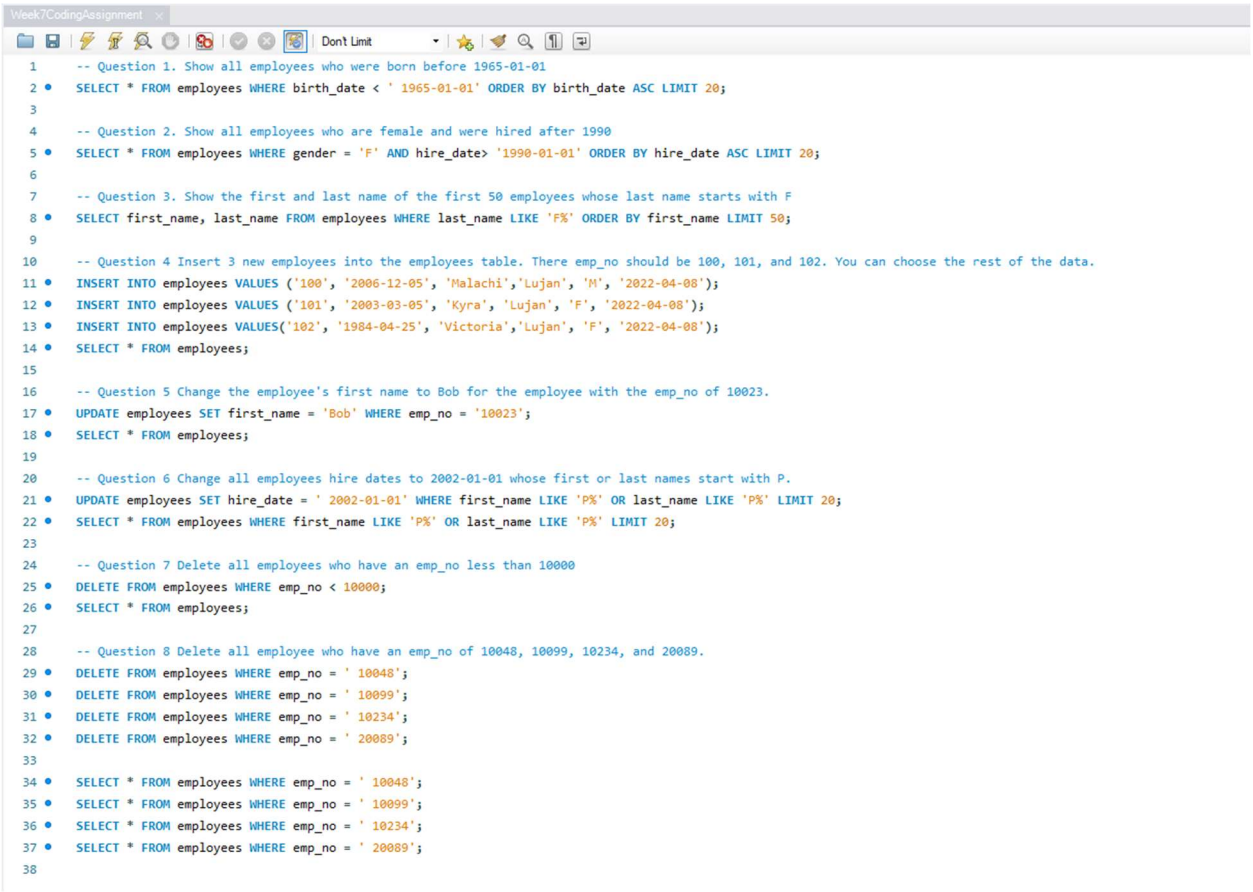
5. Change the employee's first name to Bob for the employee with the emp_no of 10023.

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:



```
1   -- Question 1. Show all employees who were born before 1965-01-01
2   SELECT * FROM employees WHERE birth_date < ' 1965-01-01' ORDER BY birth_date ASC LIMIT 20;
3
4   -- Question 2. Show all employees who are female and were hired after 1990
5   SELECT * FROM employees WHERE gender = 'F' AND hire_date> '1990-01-01' ORDER BY hire_date ASC LIMIT 20;
6
7   -- Question 3. Show the first and last name of the first 50 employees whose last name starts with F
8   SELECT first_name, last_name FROM employees WHERE last_name LIKE 'F%' ORDER BY first_name LIMIT 50;
9
10  -- Question 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.
11  INSERT INTO employees VALUES ('100', '2006-12-05', 'Malachi','Lujan', 'M', '2022-04-08');
12  INSERT INTO employees VALUES ('101', '2003-03-05', 'Kyra', 'Lujan', 'F', '2022-04-08');
13  INSERT INTO employees VALUES('102', '1984-04-25', 'Victoria','Lujan', 'F', '2022-04-08');
14  SELECT * FROM employees;
15
16  -- Question 5 Change the employee's first name to Bob for the employee with the emp_no of 10023.
17  UPDATE employees SET first_name = 'Bob' WHERE emp_no = '10023';
18  SELECT * FROM employees;
19
20  -- Question 6 Change all employees hire dates to 2002-01-01 whose first or last names start with P.
21  UPDATE employees SET hire_date = ' 2002-01-01' WHERE first_name LIKE 'P%' OR last_name LIKE 'P%' LIMIT 20;
22  SELECT * FROM employees WHERE first_name LIKE 'P%' OR last_name LIKE 'P%' LIMIT 20;
23
24  -- Question 7 Delete all employees who have an emp_no less than 10000
25  DELETE FROM employees WHERE emp_no < 10000;
26  SELECT * FROM employees;
27
28  -- Question 8 Delete all employee who have an emp_no of 10048, 10099, 10234, and 20089.
29  DELETE FROM employees WHERE emp_no = ' 10048';
30  DELETE FROM employees WHERE emp_no = ' 10099';
31  DELETE FROM employees WHERE emp_no = ' 10234';
32  DELETE FROM employees WHERE emp_no = ' 20089';
33
34  SELECT * FROM employees WHERE emp_no = ' 10048';
35  SELECT * FROM employees WHERE emp_no = ' 10099';
36  SELECT * FROM employees WHERE emp_no = ' 10234';
37  SELECT * FROM employees WHERE emp_no = ' 20089';
38
```

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

Question 1.

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

emp_no	birth_date	first_name	last_name	gender	hire_date
406121	1952-02-01	Supot	Remmele	M	1989-01-27
65308	1952-02-01	Jouni	Pocchiola	M	2002-01-01
87461	1952-02-01	Moni	Decaestecker	M	1986-10-06
91374	1952-02-01	Eishiro	Kuzuoka	M	1992-02-12
237571	1952-02-01	Ronghao	Schaad	M	1988-07-10
207658	1952-02-01	Kiyokazu	Whitcomb	M	1988-07-26
61382	1952-02-02	Kristof	Ranft	M	1989-04-21
40660	1952-02-02	Piyush	Erbe	F	2002-01-01
79026	1952-02-02	Armond	Frijda	F	1985-10-01
73959	1952-02-02	True	Denny	M	1994-05-25
13944	1952-02-02	Takahito	Maierhofer	M	1989-01-18
29456	1952-02-02	Barun	Krohm	F	1992-11-23
33131	1952-02-02	Reinhold	Savasere	M	1998-01-30
93928	1952-02-02	Tomoyuki	Axelband	F	1987-09-08
59884	1952-02-02	Fan	Przulj	M	2002-01-01
12282	1952-02-02	Tadahiro	Delgrange	M	1997-01-09
64753	1952-02-02	Shahid	Swan	F	1985-06-11
51486	1952-02-02	Jianwen	Sigstam	F	1989-07-20
22614	1952-02-02	Dung	Madeira	M	1989-01-24
94615	1952-02-02	Toshimi	Bruckman	M	1989-04-29
NULL	NULL	NULL	NULL	NULL	NULL

Question 2

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

emp_no	birth_date	first_name	last_name	gender	hire_date
38960	1953-09-05	Edwin	Morrow	F	1990-01-02
27647	1958-02-22	Richara	Conry	F	1990-01-02
268888	1962-05-04	Macha	Murrill	F	1990-01-02
105440	1952-04-18	Anneli	Jansen	F	1990-01-02
269401	1958-09-09	Atreye	Whitcomb	F	1990-01-02
80591	1956-07-26	Dipankar	Gerlach	F	1990-01-02
243198	1963-12-01	Sajjad	Matheson	F	1990-01-02
233870	1957-03-01	Domenick	Apsitis	F	1990-01-02
12923	1953-09-05	Chaosheng	Journel	F	1990-01-02
272664	1958-12-03	Odoardo	Diderrich	F	1990-01-02
48297	1956-08-27	Breannda	Birge	F	1990-01-02
107936	1955-10-31	Sugwoo	Walstra	F	1990-01-02
74200	1965-01-16	Holgard	Weiland	F	1990-01-02
80197	1957-09-27	Qiwen	Tsukuda	F	1990-01-02
71575	1956-03-14	Changho	Braunschweig	F	1990-01-02
454944	1952-03-05	Nigel	Acton	F	1990-01-02
443346	1954-02-13	Alair	Biros	F	1990-01-02
434894	1956-10-06	Morrie	Cyne	F	1990-01-02
231314	1964-10-21	Yuuichi	Morton	F	1990-01-02
442831	1962-04-14	Vasilii	Kitsuregawa	F	1990-01-02
NULL	NULL	NULL	NULL	NULL	NULL

Question 3

Result Grid | Filter Rows:

first_name	last_name
Aamer	Feinberg
Aamer	Fabrizio
Aamer	Fioravanti
Aamer	Fraisse
Aamer	Frolund
Aamer	Frijda
Aamer	Flowers
Aamer	Ferretti
Aamer	Furedi
Aamod	Falck
Aamod	Frolund
Aamod	Flexer
Aamod	Flasterstein
Aamod	Farris
Aamod	Feinberg
Aamod	Facello
Abdelaziz	Fraisse
Abdelaziz	Furedi
Abdelaziz	Fontan
Abdelaziz	Fontet
Abdelaziz	Fairtlough
Abdelghani	Foong
Abdelghani	Flowers
Abdelghani	Fioravanti
Abdelghani	Fujisawa

Question 4

Result Grid | Filter Rows: | Edit: | Expo

emp_no	birth_date	first_name	last_name	gender	hire_date
100	2006-12-05	Malachi	Lujan	M	2022-04-08
101	2003-03-05	Kyra	Lujan	F	2022-04-08
102	1984-04-25	Victoria	Lujan	F	2022-04-08
10001	1953-09-02	Georgi	Facello	M	1986-06-26
10002	1964-06-02	Bezalel	Simmel	F	1985-11-21
10003	1959-12-03	Parto	Bamford	M	2002-01-01
10004	1954-05-01	Chirstian	Koblick	M	1986-12-01
10005	1955-01-21	Kyoichi	Maliniak	M	1989-09-12
10006	1953-04-20	Anneke	Preusig	F	2002-01-01
10007	1957-05-23	Tzvetan	Zielinski	F	1989-02-10
10008	1958-02-19	Saniya	Kalloufi	M	1994-09-15
10009	1952-04-19	Sumant	Peac	F	2002-01-01
10010	1963-06-01	Duangkaew	Piveteau	F	2002-01-01
10011	1953-11-07	Mary	Sluis	F	1990-01-22
10012	1960-10-04	Patricio	Bridgland	M	2002-01-01
10013	1963-06-07	Eberhardt	Terkki	M	1985-10-20
10014	1956-02-12	Berni	Genin	M	1987-03-11
10015	1959-08-19	Guoxiang	Nooteboom	M	1987-07-02
10016	1961-05-02	Kazuhito	Cappelletti	M	1995-01-27
10017	1958-07-06	Cristinel	Bouloucos	F	1993-08-03
10018	1954-06-19	Kazuhide	Peha	F	2002-01-01
10019	1953-01-23	Lillian	Haddadi	M	1999-04-30
10020	1952-12-24	Mayuko	Warwick	M	1991-01-26
10021	1960-02-20	Ramzi	Erde	M	1988-02-10
10022	1952-07-08	Shahaf	Famili	M	1995-08-22

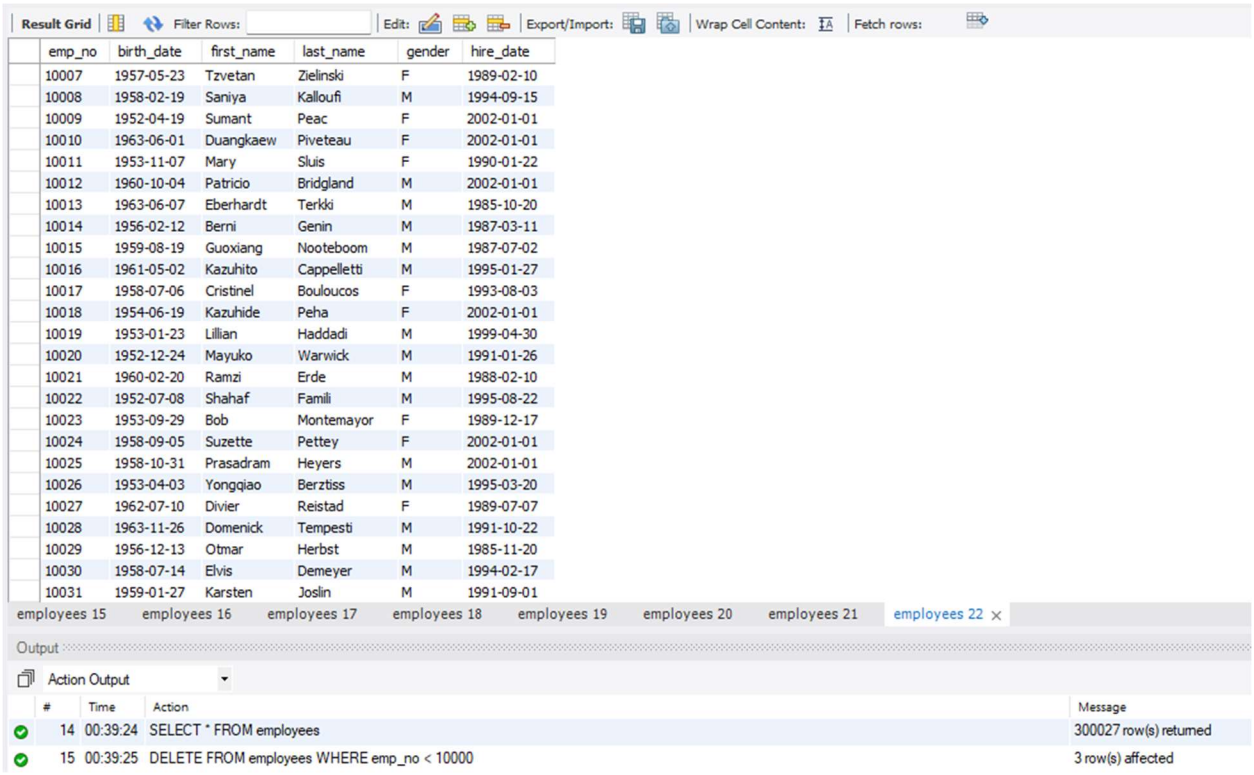
Question 5

emp_no	birth_date	first_name	last_name	gender	hire_date
10016	1961-05-02	Kazuhito	Cappelletti	M	1995-01-27
10017	1958-07-06	Cristinel	Bouloucos	F	1993-08-03
10018	1954-06-19	Kazuhide	Peha	F	2002-01-01
10019	1953-01-23	Lillian	Haddadi	M	1999-04-30
10020	1952-12-24	Mayuko	Warwick	M	1991-01-26
10021	1960-02-20	Ramzi	Erde	M	1988-02-10
10022	1952-07-08	Shahaf	Famili	M	1995-08-22
10023	1953-09-29	Bob	Montemayor	F	1989-12-17
10024	1958-09-05	Suzette	Pettey	F	2002-01-01
10025	1958-10-31	Prasadram	Heyers	M	2002-01-01
10026	1953-04-03	Yongqiao	Berztiss	M	1995-03-20
10027	1962-07-10	Divier	Reistad	F	1989-07-07
10028	1963-11-26	Domenick	Tempesti	M	1991-10-22
10029	1956-12-13	Otmar	Herbst	M	1985-11-20
10030	1958-07-14	Elvis	Demeyer	M	1994-02-17
10031	1959-01-27	Karsten	Joslin	M	1991-09-01
10032	1960-08-09	Jeong	Reistad	F	1990-06-20
10033	1956-11-14	Arif	Merlo	M	1987-03-18
10034	1962-12-29	Bader	Swan	M	1988-09-21
10035	1953-02-08	Alain	Chappelet	M	1988-09-05
10036	1959-08-10	Adamantios	Portugali	M	2002-01-01
10037	1963-07-22	Pradeep	Makrucki	M	2002-01-01
10038	1960-07-20	Huan	Lortz	M	1989-09-20
10039	1959-10-01	Alejandro	Brender	M	1988-01-19
10040	1959-09-13	Weiyi	Meriste	F	1993-02-14

Question 6

emp_no	birth_date	first_name	last_name	gender	hire_date
10003	1959-12-03	Parto	Bamford	M	2002-01-01
10006	1953-04-20	Anneke	Preusig	F	2002-01-01
10009	1952-04-19	Sumant	Peac	F	2002-01-01
10010	1963-06-01	Duangkaew	Piveteau	F	2002-01-01
10012	1960-10-04	Patricio	Bridgland	M	2002-01-01
10018	1954-06-19	Kazuhide	Peha	F	2002-01-01
10024	1958-09-05	Suzette	Pettey	F	2002-01-01
10025	1958-10-31	Prasadram	Heyers	M	2002-01-01
10036	1959-08-10	Adamantios	Portugali	M	2002-01-01
10037	1963-07-22	Pradeep	Makrucki	M	2002-01-01
10062	1961-11-02	Anoosh	Peyn	M	2002-01-01
10080	1957-12-03	Premal	Baek	M	2002-01-01
10082	1963-09-09	Parviz	Lortz	M	2002-01-01
10101	1952-04-15	Perla	Heyers	F	2002-01-01
10102	1959-11-04	Paraskevi	Luby	F	2002-01-01
10105	1962-02-05	Hironoby	Piveteau	M	2002-01-01
10109	1958-11-25	Mariusz	Prampolini	F	2002-01-01
10119	1960-12-01	Domenick	Peltason	M	2002-01-01
10129	1955-12-02	Armond	Peir	M	2002-01-01
10136	1961-09-14	Zissis	Pintelas	M	2002-01-01
NULL	NULL	NULL	NULL	NULL	NULL

Question 7



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

emp_no	birth_date	first_name	last_name	gender	hire_date
10007	1957-05-23	Tzvetan	Zielinski	F	1989-02-10
10008	1958-02-19	Saniya	Kalloufi	M	1994-09-15
10009	1952-04-19	Sumant	Peac	F	2002-01-01
10010	1963-06-01	Duangkaew	Piveteau	F	2002-01-01
10011	1953-11-07	Mary	Sluis	F	1990-01-22
10012	1960-10-04	Patricio	Bridgland	M	2002-01-01
10013	1963-06-07	Eberhardt	Terkki	M	1985-10-20
10014	1956-02-12	Berni	Genin	M	1987-03-11
10015	1959-08-19	Guoxiang	Nooteboom	M	1987-07-02
10016	1961-05-02	Kazuhito	Cappelletti	M	1995-01-27
10017	1958-07-06	Cristinel	Bouloucos	F	1993-08-03
10018	1954-06-19	Kazuhide	Peha	F	2002-01-01
10019	1953-01-23	Lillian	Haddadi	M	1999-04-30
10020	1952-12-24	Mayuko	Warwick	M	1991-01-26
10021	1960-02-20	Ramzi	Erde	M	1988-02-10
10022	1952-07-08	Shahaf	Famili	M	1995-08-22
10023	1953-09-29	Bob	Montemayor	F	1989-12-17
10024	1958-09-05	Suzette	Pettey	F	2002-01-01
10025	1958-10-31	Prasadram	Heyers	M	2002-01-01
10026	1953-04-03	Yongqiao	Berztiss	M	1995-03-20
10027	1962-07-10	Divier	Reistad	F	1989-07-07
10028	1963-11-26	Domenick	Tempesti	M	1991-10-22
10029	1956-12-13	Otmar	Herbst	M	1985-11-20
10030	1958-07-14	Elvis	Demeyer	M	1994-02-17
10031	1959-01-27	Karsten	Joslin	M	1991-09-01

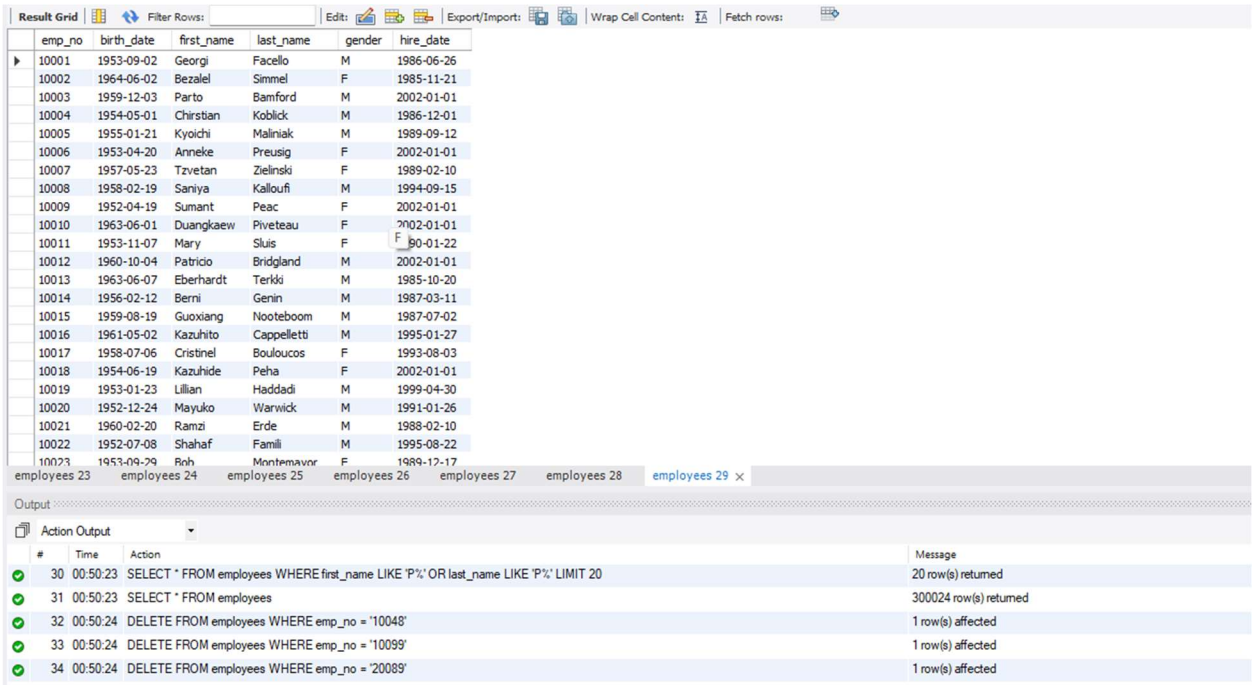
employees 15 | employees 16 | employees 17 | employees 18 | employees 19 | employees 20 | employees 21 | employees 22

Output

Action Output

#	Time	Action	Message
14	00:39:24	SELECT * FROM employees	300027 row(s) returned
15	00:39:25	DELETE FROM employees WHERE emp_no < 10000	3 row(s) affected

Question 8



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

emp_no	birth_date	first_name	last_name	gender	hire_date
10001	1953-09-02	Georgi	Facello	M	1986-06-26
10002	1964-06-02	Bezalel	Simmel	F	1985-11-21
10003	1959-12-03	Parto	Bamford	M	2002-01-01
10004	1954-05-01	Chirstian	Koblick	M	1986-12-01
10005	1955-01-21	Kyoichi	Maliniak	M	1989-09-12
10006	1953-04-20	Anneke	Preusig	F	2002-01-01
10007	1957-05-23	Tzvetan	Zielinski	F	1989-02-10
10008	1958-02-19	Saniya	Kalloufi	M	1994-09-15
10009	1952-04-19	Sumant	Peac	F	2002-01-01
10010	1963-06-01	Duangkaew	Piveteau	F	2002-01-01
10011	1953-11-07	Mary	Sluis	F	1990-01-22
10012	1960-10-04	Patricio	Bridgland	M	2002-01-01
10013	1963-06-07	Eberhardt	Terkki	M	1985-10-20
10014	1956-02-12	Berni	Genin	M	1987-03-11
10015	1959-08-19	Guoxiang	Nooteboom	M	1987-07-02
10016	1961-05-02	Kazuhito	Cappelletti	M	1995-01-27
10017	1958-07-06	Cristinel	Bouloucos	F	1993-08-03
10018	1954-06-19	Kazuhide	Peha	F	2002-01-01
10019	1953-01-23	Lillian	Haddadi	M	1999-04-30
10020	1952-12-24	Mayuko	Warwick	M	1991-01-26
10021	1960-02-20	Ramzi	Erde	M	1988-02-10
10022	1952-07-08	Shahaf	Famili	M	1995-08-22
10023	1953-09-29	Bob	Montemayor	F	1989-12-17

employees 23 | employees 24 | employees 25 | employees 26 | employees 27 | employees 28 | employees 29

Output

Action Output

#	Time	Action	Message
30	00:50:23	SELECT * FROM employees WHERE first_name LIKE 'P%' OR last_name LIKE 'P%' LIMIT 20	20 row(s) returned
31	00:50:23	SELECT * FROM employees	300024 row(s) returned
32	00:50:24	DELETE FROM employees WHERE emp_no = '10048'	1 row(s) affected
33	00:50:24	DELETE FROM employees WHERE emp_no = '10099'	1 row(s) affected
34	00:50:24	DELETE FROM employees WHERE emp_no = '20089'	1 row(s) affected

URL to GitHub Repository: