

Data Base Management System

Assignment – 2

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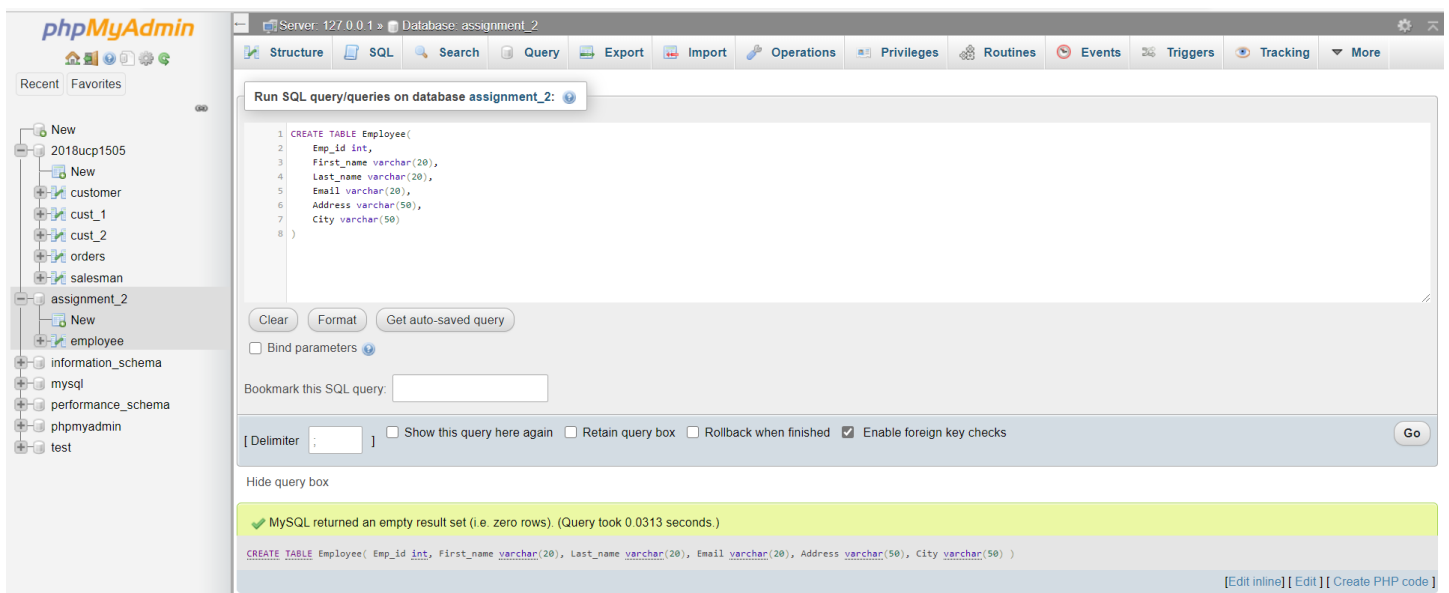
Id: 2018ucp1505

Q1: Create a table named Employee (Emp_id int, First_name varchar (20), Last_name varchar (20), Email varchar (20), Address varchar (50), City varchar (15)) with no primary key. Insert 10 rows of data in the Employee table.

Ans:

Query: -

```
CREATE TABLE Employee (  
    Emp_id int,  
    First_name varchar (20),  
    Last_name varchar (20),  
    Email varchar (20),  
    Address varchar (50),  
    City varchar (50)  
);
```

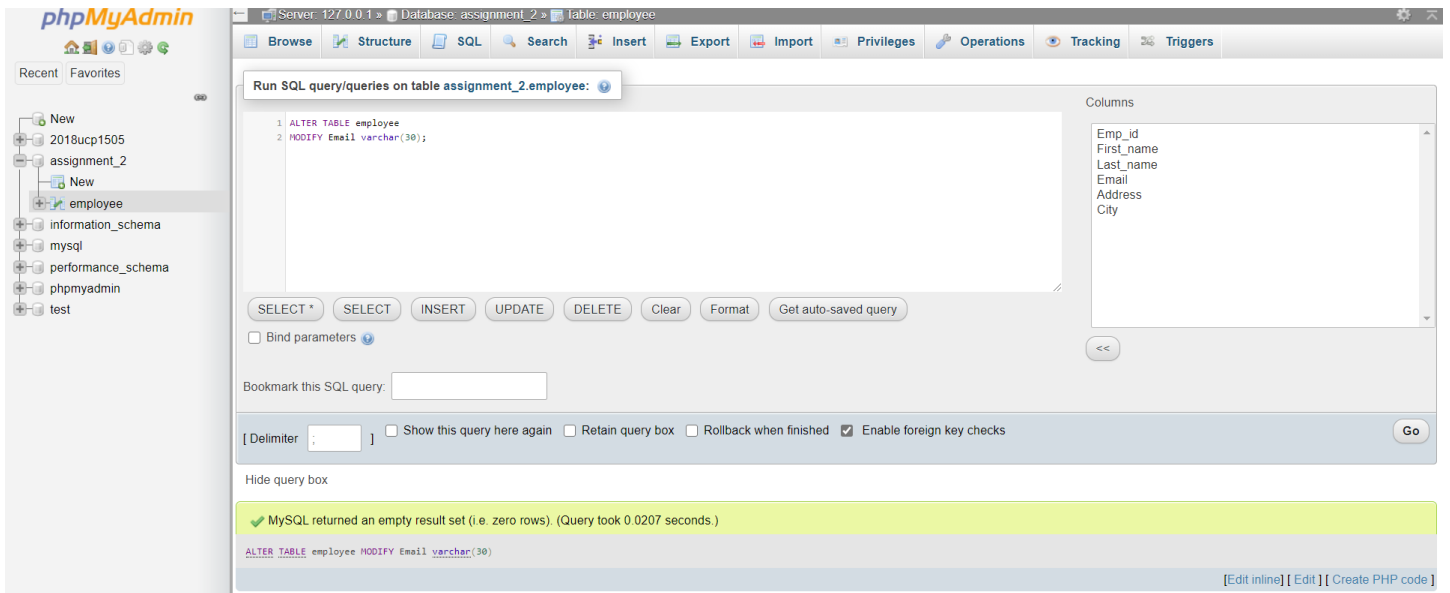


Q2: WAQ to change "Email" column from varchar (20) to varchar (30).

Ans:

Query: -

```
ALTER TABLE Employee  
MODIFY Email varchar (30);
```

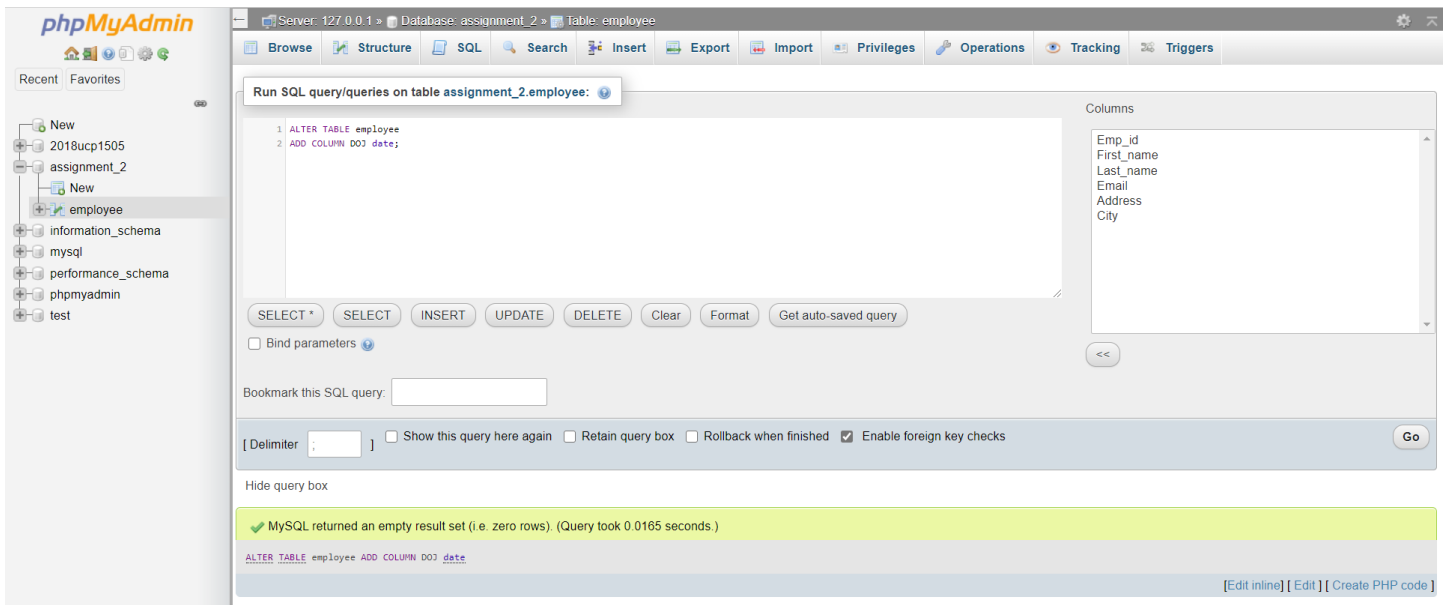


Q3: WAQ to add a new column "DOJ" in the Employee table which stores the date on which the employee joined the company. DOJ column should allow NULL values

Ans:

Query: -

ALTER TABLE Employee
ADD COLUMN DOJ date;

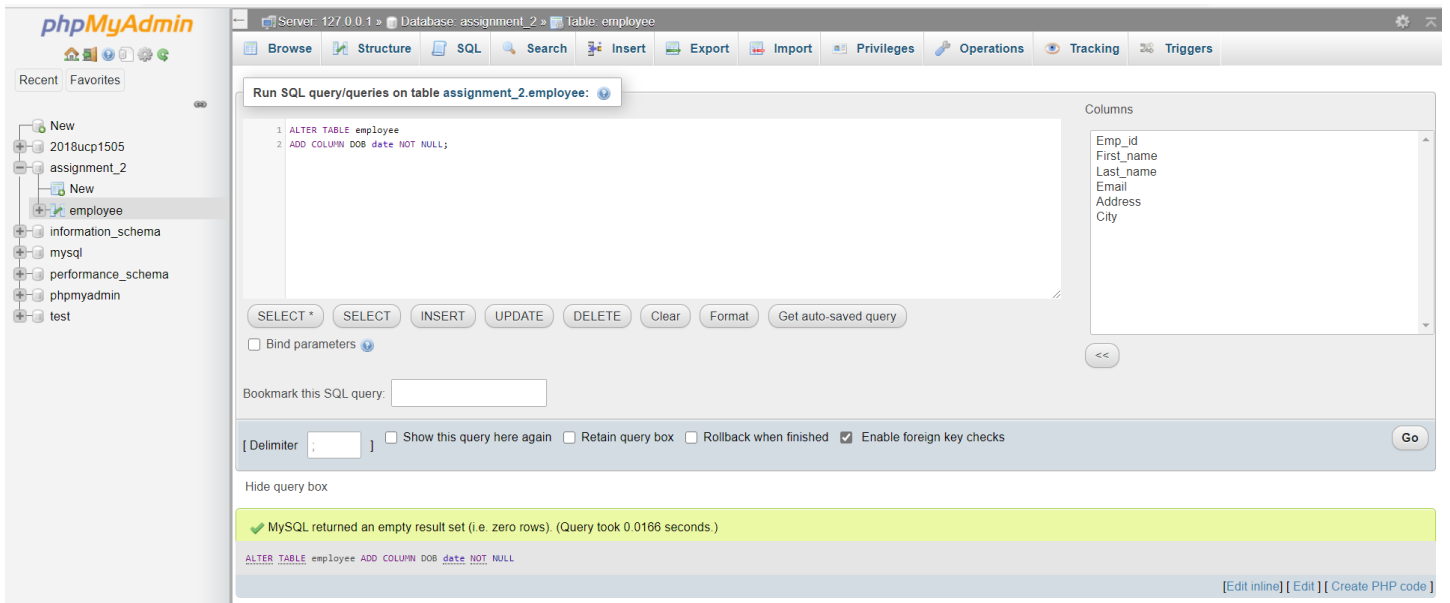


Q4: WAQ to add a new column "DOB" in the Employee table which stores the date of birth of the employee. DOB column should not allow NULL values.

Ans:

Query: -

ALTER TABLE Employee
ADD COLUMN DOB date NOT NULL;



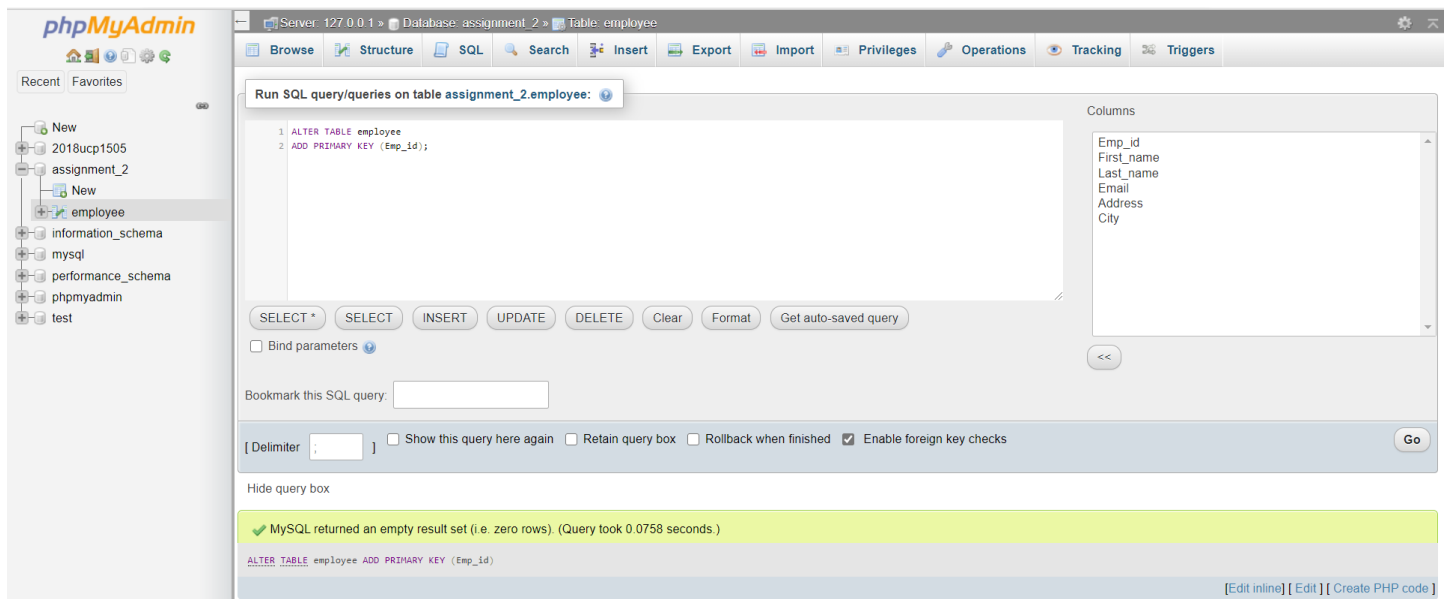
Q5: WAQ to make the "Emp_id" column as the primary key in the Employee table.

Ans:

Query: -

ALTER TABLE Employee

ADD PRIMARY KEY (Emp_id);



Q6: WAQ to delete Employees who do not have a joining date. (i.e. joining date is null).

Ans:

DATABASE BEFORE EXECUTING QUERY: -

phpMyAdmin

Server: 127.0.0.1 » Database: assignment_2 » Table: employee

Showing rows 0 - 10 (11 total, Query took 0.0008 seconds.)

SELECT * FROM `employee`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Options	Emp_id	First_name	Last_name	Email	Address	City	DOJ	DOB
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	Alfreds	Futterkiste	get_wake@gmail.com	Obere Str. 57	Delhi	1988-02-02	2002-01-03
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2	Around	the Horn	random@gamil.com	Mataderos 2312	Indore	NULL	1999-10-12
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	3	Berglunds	snabbköp	Berglunds@gmail.com	Mataderos 2312	Indore	NULL	1999-10-12
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	4	Bon	app	Bon_app@gmail.com	12, rue des Bouchers	Mumbai	1999-10-11	1981-11-09
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	5	Comércio	Mineiro	Comércio@gamil.com	Av. dos Lusíadas, 23	Delhi	NULL	2000-10-10
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	6	Folies	gourmandes	Folies@gmail.com	184, chaussée de Tournai	Bhopal	2000-10-10	1989-03-05
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	7	France	restauration	France@gmail.com	54, rue Royale	Gurgaon	1992-07-11	1971-02-11
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	8	Gourmet	Lanchonetes	Lanchonetes@gamil.com	Av. Brasil, 442	Delhi	NULL	2002-02-12
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	9	Island	Trading	Island@gmail.com	Garden House Crowther Way	Muradabad	2010-01-11	1989-09-11
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	10	Königlich	Essen	Essen@gmail.com	Maubelstr. 90	Jabalpur	2002-02-11	1999-10-01
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	11	Maison	Dewey	Maison@gamil.com	Rue Joseph-Bens 532	Merut	NULL	2004-12-11

Check all | With selected: Edit Copy Delete Export

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

QUERY: -

DELETE FROM 'employee' WHERE DOJ is NULL;

phpMyAdmin

Server: 127.0.0.1 » Database: assignment_2 » Table: employee

Run SQL query/queries on table assignment_2.employee:

```
1 DELETE FROM `employee` WHERE DOJ is NULL;
```

Columns: Emp_id, First_name, Last_name, Email, Address, City, DOJ, DOB

SELECT * | SELECT | INSERT | UPDATE | DELETE | Clear | Format | Get auto-saved query

Bind parameters

Bookmark this SQL query:

[Delimiter: ;] | Show this query here again | Retain query box | Rollback when finished | ☒ Enable foreign key checks | Simulate query | Go

Hide query box

3 rows affected. (Query took 0.0084 seconds.)

DELETE FROM `employee` WHERE DOJ is NULL

[Edit inline] [Edit] [Create PHP code]

DATABASE AFTER EXECUTING QUERY: -

phpMyAdmin

Server: 127.0.0.1 » Database: assignment_2 » Table: employee

Showing rows 0 - 10 (11 total, Query took 0.0008 seconds.)

SELECT * FROM `employee`

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Options	Emp_id	First_name	Last_name	Email	Address	City	DOJ	DOB
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	Alfreds	Futterkiste	get_wake@gmail.com	Obere Str. 57	Delhi	1988-02-02	2002-01-03
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	3	Berglunds	snabbköp	Berglunds@gmail.com	Mataderos 2312	Indore	2010-11-10	1999-10-12
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	4	Bon	app	Bon_app@gmail.com	12, rue des Bouchers	Mumbai	1999-10-11	1981-11-09
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	6	Folies	gourmandes	Folies@gmail.com	184, chaussée de Tournai	Bhopal	2000-10-10	1989-03-05
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	7	France	restauration	France@gmail.com	54, rue Royale	Gurgaon	1992-07-11	1971-02-11
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	8	Gourmet	Lanchonetes	Lanchonetes@gamil.com	Av. Brasil, 442	Delhi	2019-12-12	2002-02-12
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	9	Island	Trading	Island@gmail.com	Garden House Crowther Way	Muradabad	2010-01-11	1989-09-11
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	10	Königlich	Essen	Essen@gmail.com	Maubelstr. 90	Jabalpur	2002-02-11	1999-10-01

Check all | With selected: Edit Copy Delete Export

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

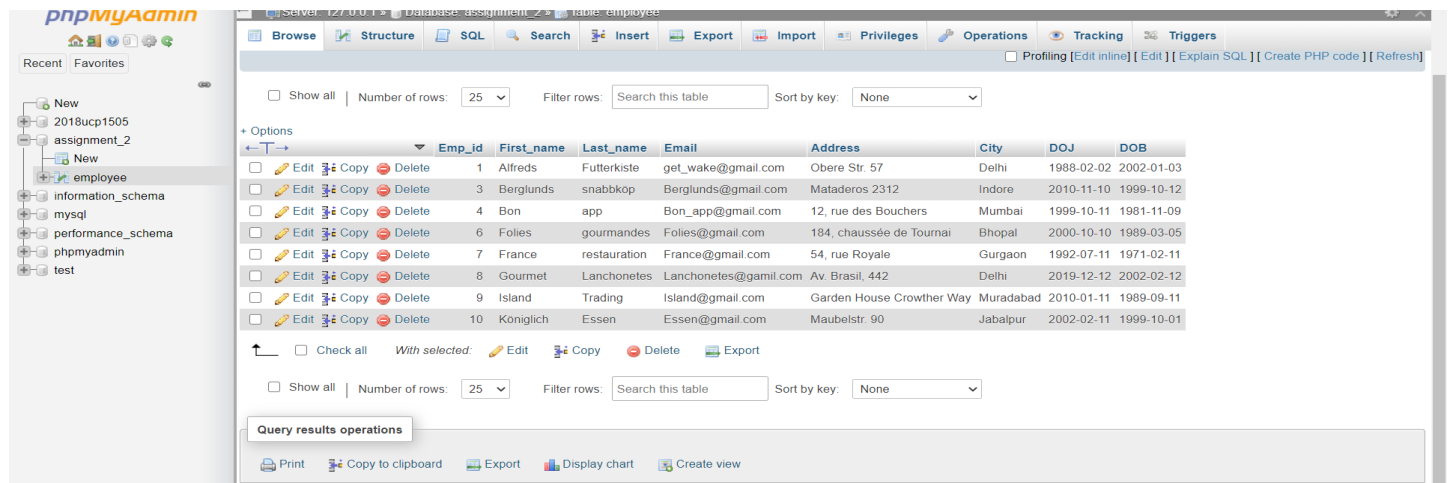
Query results operations

Print | Copy to clipboard | Export | Display chart | Create view

Q7: WAQ to update all records where the city is "Delhi" to city "Gurgaon".

Ans:

DATABASE BEFORE EXECUTING QUERY: -



The screenshot shows the phpMyAdmin interface with the 'employee' table selected. The table contains 10 records. The 'City' column has values: Delhi, Indore, Mumbai, Bhopal, Gurgaon, Delhi, Muradabad, and Jabalpur. The 'City' values 'Delhi' are highlighted in red, indicating they are the target of the update query.

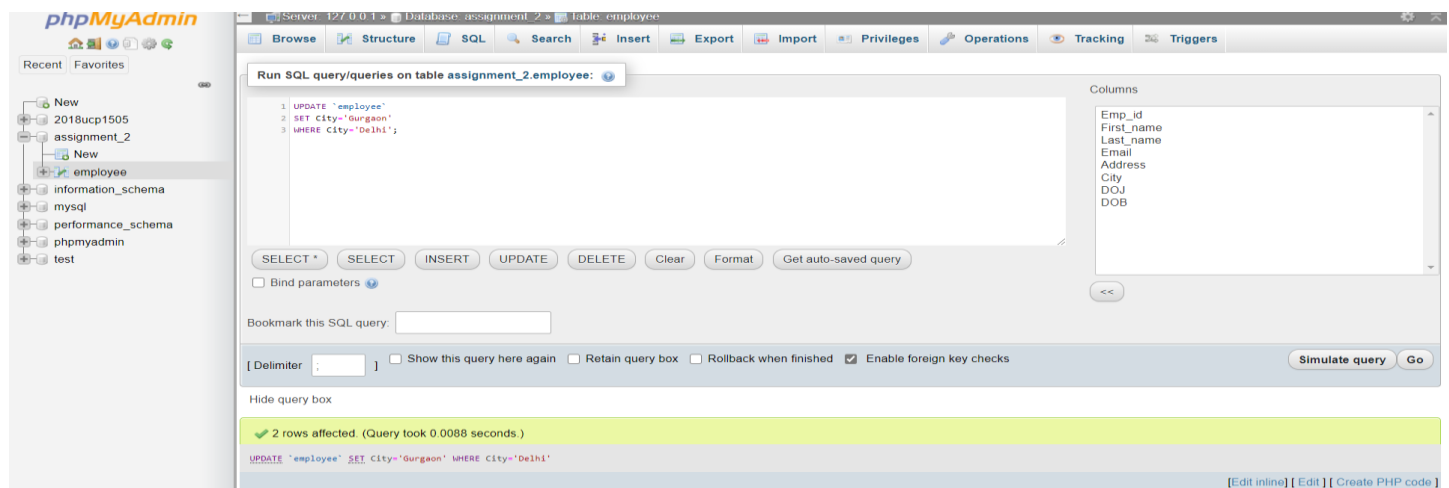
Emp_id	First_name	Last_name	Email	Address	City	DOJ	DOB
1	Alfreds	Futterkiste	get_wake@gmail.com	Obere Str. 57	Delhi	1988-02-02	2002-01-03
3	Berglunds	snabbkop	Berglunds@gmail.com	Mataderos 2312	Indore	2010-11-10	1999-10-12
4	Bon	app	Bon_app@gmail.com	12, rue des Bouchers	Mumbai	1999-10-11	1981-11-09
6	Folies	gourmandes	Folies@gmail.com	184, chaussée de Tournai	Bhopal	2000-10-10	1989-03-05
7	France	restauration	France@gmail.com	54, rue Royale	Gurgaon	1992-07-11	1971-02-11
8	Gourmet	Lanchonetes	Lanchonetes@gamil.com	Av. Brasil, 442	Delhi	2019-12-12	2002-02-12
9	Island	Trading	Island@gmail.com	Garden House Crowther Way	Muradabad	2010-01-11	1989-09-11
10	Königlich	Essen	Essen@gmail.com	Maubelstr. 90	Jabalpur	2002-02-11	1999-10-01

Query: -

UPDATE 'employee'

SET City = 'Gurgaon'

WHERE City = 'Delhi'



The screenshot shows the phpMyAdmin interface with the SQL query execution results. The query was: `UPDATE 'employee' SET City='Gurgaon' WHERE City='Delhi';`. The results show that 2 rows were affected, and the query took 0.0088 seconds. The 'City' column values for the affected rows (Emp_id 1 and 8) are now 'Gurgaon'.

```
1. UPDATE 'employee'
2. SET City='Gurgaon'
3. WHERE City='Delhi';
```

Columns: Emp_id, First_name, Last_name, Email, Address, City, DOJ, DOB

Bookmark this SQL query: [text box]

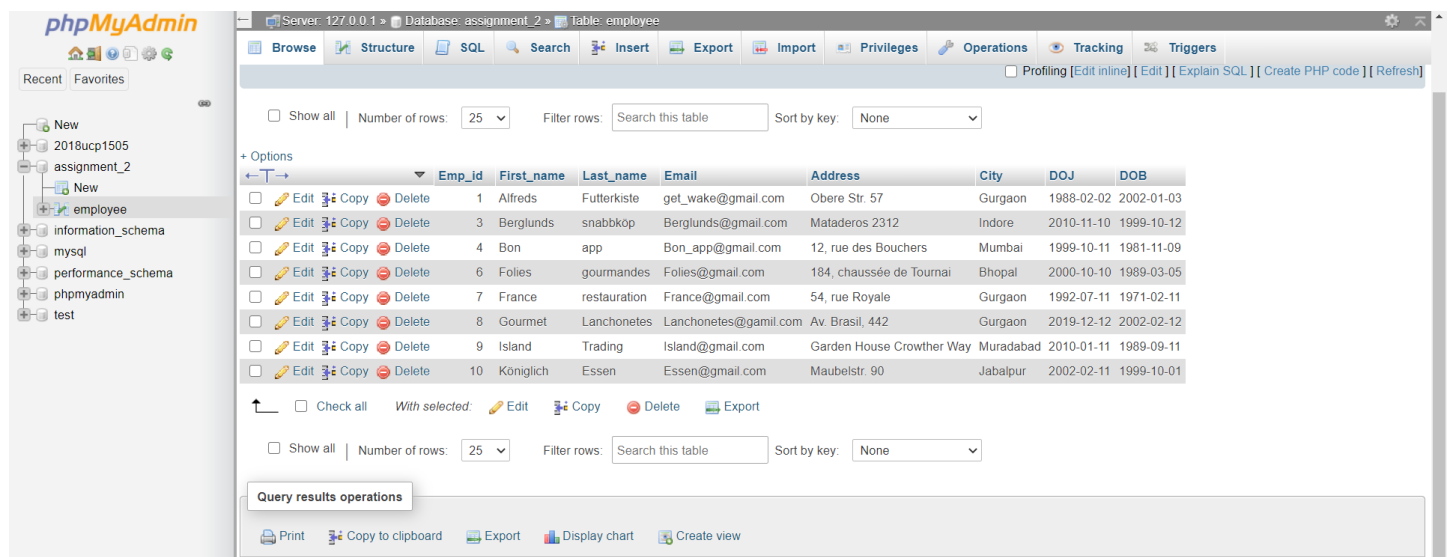
[Delimiter: ;] [Show this query here again] [Retain query box] [Rollback when finished] [Enable foreign key checks] [Simulate query] [Go]

Hide query box

✓ 2 rows affected. (Query took 0.0088 seconds.)

UPDATE 'employee' SET City='Gurgaon' WHERE City='Delhi'

DATABASE AFTER EXECUTING QUERY: -



The screenshot shows the phpMyAdmin interface with the 'employee' table selected. The table contains 10 records. The 'City' column has values: Gurgaon, Indore, Mumbai, Bhopal, Gurgaon, Gurgaon, Muradabad, and Jabalpur. The 'City' values 'Gurgaon' are highlighted in red, indicating they are the result of the update query.

Emp_id	First_name	Last_name	Email	Address	City	DOJ	DOB
1	Alfreds	Futterkiste	get_wake@gmail.com	Obere Str. 57	Gurgaon	1988-02-02	2002-01-03
3	Berglunds	snabbkop	Berglunds@gmail.com	Mataderos 2312	Indore	2010-11-10	1999-10-12
4	Bon	app	Bon_app@gmail.com	12, rue des Bouchers	Mumbai	1999-10-11	1981-11-09
6	Folies	gourmandes	Folies@gmail.com	184, chaussée de Tournai	Bhopal	2000-10-10	1989-03-05
7	France	restauration	France@gmail.com	54, rue Royale	Gurgaon	1992-07-11	1971-02-11
8	Gourmet	Lanchonetes	Lanchonetes@gamil.com	Av. Brasil, 442	Gurgaon	2019-12-12	2002-02-12
9	Island	Trading	Island@gmail.com	Garden House Crowther Way	Muradabad	2010-01-11	1989-09-11
10	Königlich	Essen	Essen@gmail.com	Maubelstr. 90	Jabalpur	2002-02-11	1999-10-01

Q8: WAQ to remove all records from the table.

Ans:

DATABASE BEFORE EXECUTING QUERY: -

The screenshot shows the phpMyAdmin interface for a database named 'assignment_2'. The 'employee' table is selected, and its structure is displayed. The table has 10 records. The columns are: Emp_id, First_name, Last_name, Email, Address, City, DOJ, and DOB.

Emp_id	First_name	Last_name	Email	Address	City	DOJ	DOB
1	Alfreds	Futterkiste	get_wake@gmail.com	Obere Str. 57	Gurgaon	1988-02-02	2002-01-03
3	Berglunds	snabbköp	Berglunds@gmail.com	Mataderos 2312	Indore	2010-11-10	1999-10-12
4	Bon	app	Bon_app@gmail.com	12, rue des Bouchers	Mumbai	1999-10-11	1981-11-09
6	Folies	gourmandes	Folies@gmail.com	184, chaussée de Tournai	Bhopal	2000-10-10	1989-03-05
7	France	restauration	France@gmail.com	54, rue Royale	Gurgaon	1992-07-11	1971-02-11
8	Gourmet	Lanchonetes	Lanchonetes@gamil.com	Av. Brasil, 442	Gurgaon	2019-12-12	2002-02-12
9	Island	Trading	Island@gmail.com	Garden House Crowther Way	Muradabad	2010-01-11	1989-09-11
10	Königlich	Essen	Essen@gmail.com	Maubelstr. 90	Jabalpur	2002-02-11	1999-10-01

Query: -

DELETE FROM 'Employee';

The screenshot shows the phpMyAdmin interface with the SQL query editor open. The query entered is: `DELETE FROM 'employee';`. The query has been executed successfully, and a message at the bottom states: "8 rows affected. (Query took 0.0085 seconds)".

DATABASE AFTER EXECUTING QUERY: -

The screenshot shows the phpMyAdmin interface for the 'employee' table after the DELETE query has been executed. The table is now empty, and a message at the top states: "MySQL returned an empty result set (i.e. zero rows) (Query took 0.0008 seconds)".

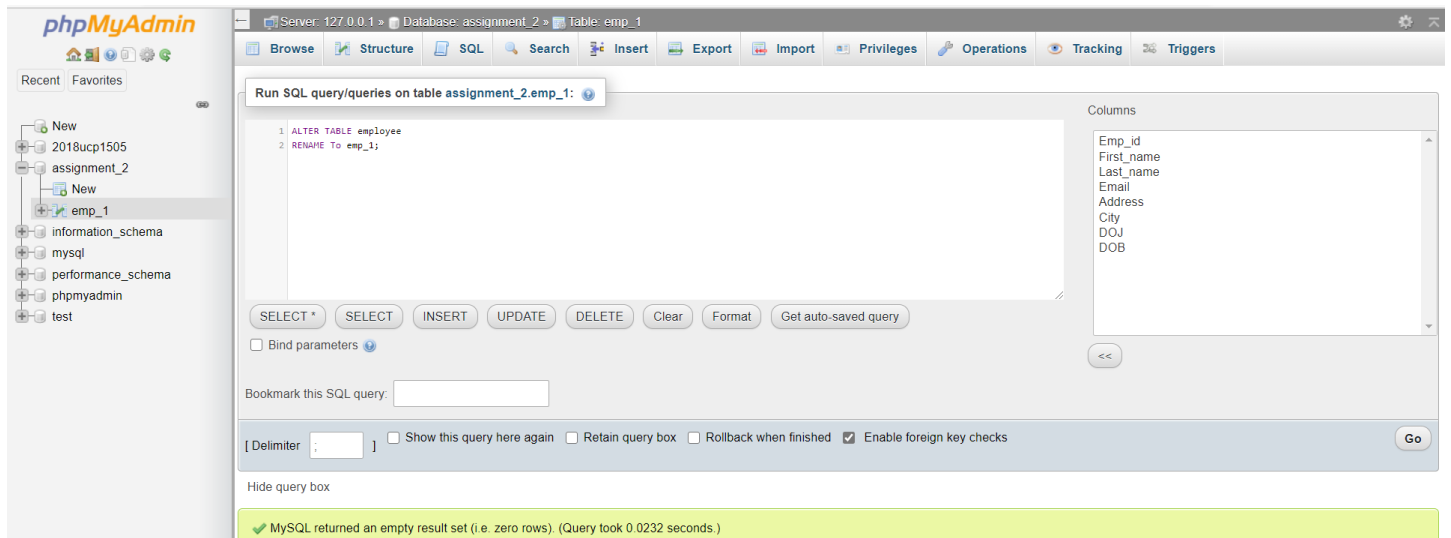
Q9: WAQ to rename Employee table to Emp_1.

Ans:

Query: -

ALTER TABLE employee

RENAME TO emp_1;



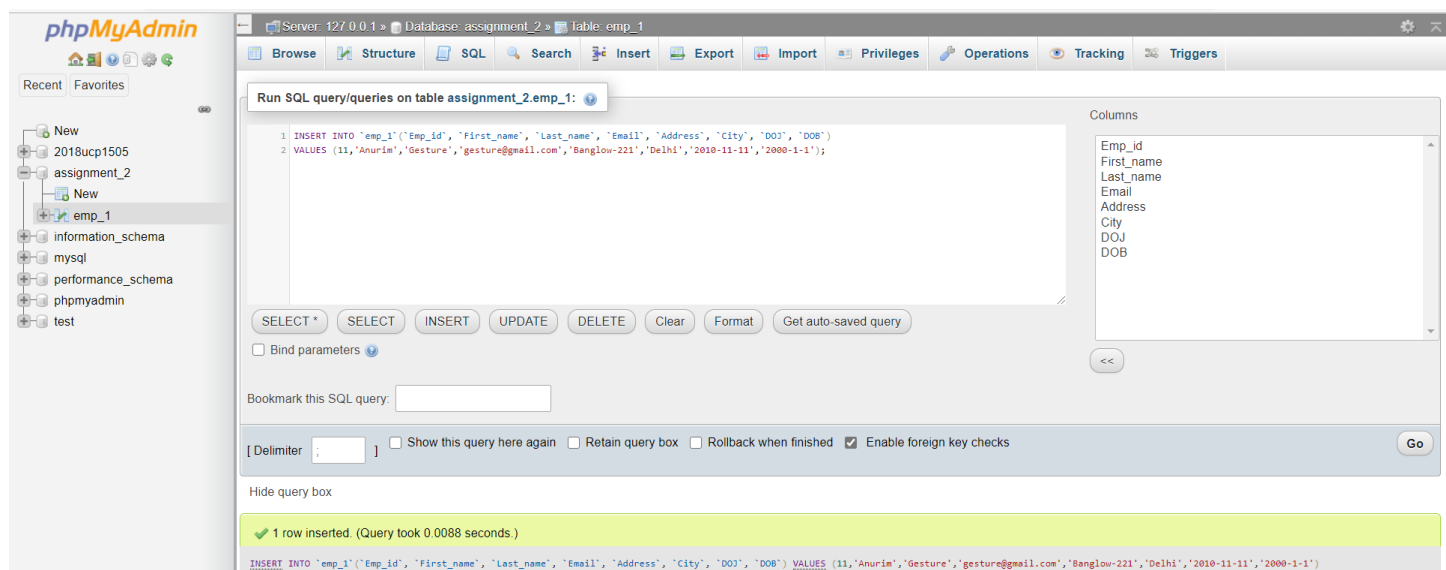
Q10: Insert new records in the Emp_1 table. Then WAQ to completely delete Emp_1 table (i.e. delete data as well as structure of table from the database).

Ans:

Query: -

INSERT INTO 'emp_1' ('Emp_id','First_name','Last_name','Email','Address','City','DOJ','DOB')

VALUES (11,'Anurim','Gesture','gesture@gmail.com','Banglow-221','Delhi','2010-11-11','2000-1-1');



DROP TABLE employee;

phpMyAdmin

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Server: 127.0.0.1 » Database: assignment_2 » Table: employee

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Run SQL query/queries on table assignment_2.employee:

1 DROP TABLE employee;

SELECT *

SELECT

INSERT

UPDATE

DELETE

Clear

Format

Get auto-saved query

☐ Bind parameters

Bookmark this SQL query:

[Delimiter ;]

☐ Show this query here again

☐ Retain query box

☐ Rollback when finished

☒ Enable foreign key checks

Go

Hide query box

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0197 seconds.)

DROP TABLE employee

[Edit inline]

[Edit]

[Create PHP code]

Columns

Emp_id

First_name

Last_name

Email

Address

City

DOJ

DOB