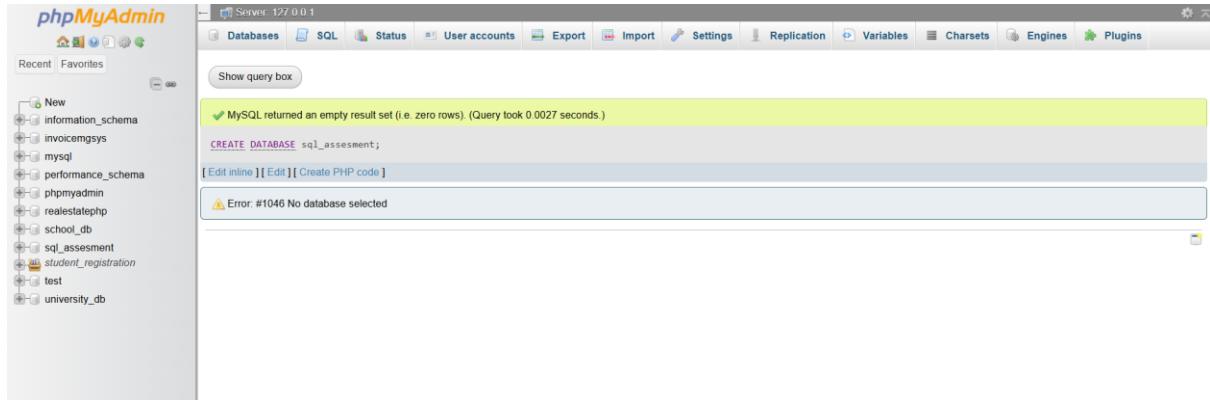


CODE FOR CREATING DATABASE:

```
CREATE DATABASE world_data;
```

SCREENSHOT:



CODE FOR CREATING DATA:

```
CREATE TABLE Country (
```

```
country_id INT PRIMARY KEY,  
country_name VARCHAR(50)  
);
```

```
CREATE TABLE City (
```

```
city_id INT PRIMARY KEY,  
city_name VARCHAR(50),  
country_id INT,  
FOREIGN KEY (country_id) REFERENCES Country(country_id)  
);
```

```
CREATE TABLE Customer (
```

```
customer_id INT PRIMARY KEY,  
customer_name VARCHAR(50),
```

```

city_id INT,
FOREIGN KEY (city_id) REFERENCES City(city_id)
);

```

SCREENSHOT:

The screenshot shows the phpMyAdmin interface with the following details:

- Left Sidebar:** Shows a tree view of databases: New, information_schema, invocemsgsys, mysql, performance_schema, phpmyadmin, realstatephp, school_db, and sql_assessment.
- Top Bar:** Includes tabs for Structure, SQL, Search, Query, Export, Import, Operations, Privileges, Routines, Events, Triggers, and Designer.
- Structure Tab Content:**
 - Filters:** A search bar containing "Containing the word: []".
 - Table List:** Shows three tables: city, country, and customer, each with 3 rows. The columns are: Action, Table, Rows, Type, Collation, Size, and Overhead.
 - Create new table:** A dialog box with fields for Table name (empty) and Number of columns (4), with a Create button.
- Bottom:** A Console tab.

CODE FOR INSERTING DATA:

INSERT INTO Country VALUES

```

(1, 'Germany'),
(2, 'Croatia'),
(3, 'USA'),
(4, 'Spain'),
(5, 'Russia');

```

INSERT INTO City VALUES

```

(10, 'Berlin', 1),
(20, 'Zagreb', 2),
(30, 'New York', 3);

```

INSERT INTO Customer VALUES

(101, 'Alex', 10),

(102, 'Marta', 20),

(103, 'John', 30);

SCREENSHOT:

The image consists of three vertically stacked screenshots of the phpMyAdmin database management tool, showing the structure and data of three tables: city, country, and customer.

Screenshot 1: city Table

The table structure for the city table is shown with columns: city_id, city_name, and country_id. The data is as follows:

city_id	city_name	country_id
10	Berlin	1
20	Zagreb	2
30	New York	3

Screenshot 2: country Table

The table structure for the country table is shown with columns: country_id and country_name. The data is as follows:

country_id	country_name
1	Germany
2	Croatia
3	USA
4	Spain
5	Russia

Screenshot 3: customer Table

The table structure for the customer table is shown with columns: customer_id, customer_name, and city_id. The data is as follows:

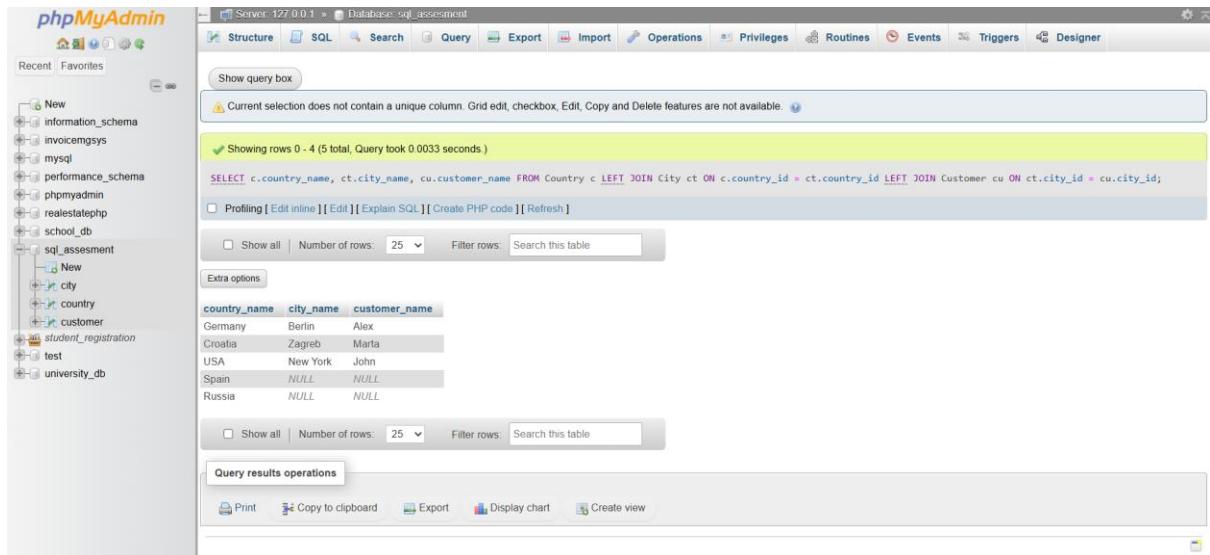
customer_id	customer_name	city_id
101	Alex	10
102	Marta	20
103	John	30

LEFT JOIN (Task 1):

SELECT

```
c.country_name,  
ct.city_name,  
cu.customer_name  
FROM Country c  
LEFT JOIN City ct  
ON c.country_id = ct.country_id  
LEFT JOIN Customer cu  
ON ct.city_id = cu.city_id;
```

SCREENSHOT:



The screenshot shows the phpMyAdmin interface with the following details:

- Left Panel:** Shows the database structure with databases like information_schema, mysql, performance_schema, and several custom schemas (sql_assessment, student_registration, test, university_db).
- Top Bar:** Shows "Server: 127.0.0.1" and "Database: sql_assessment".
- Toolbar:** Includes buttons for Structure, SQL, Search, Query, Export, Import, Operations, Privileges, Routines, Events, Triggers, and Designer.
- Query Results:** A message box says "Showing rows 0 - 4 (5 total, Query took 0.0033 seconds)".
- SQL Query:** The query is displayed: `SELECT c.country_name, ct.city_name, cu.customer_name FROM Country c LEFT JOIN City ct ON c.country_id = ct.country_id LEFT JOIN Customer cu ON ct.city_id = cu.city_id;`.
- Data Table:** A table with columns `country_name`, `city_name`, and `customer_name`. The data is:

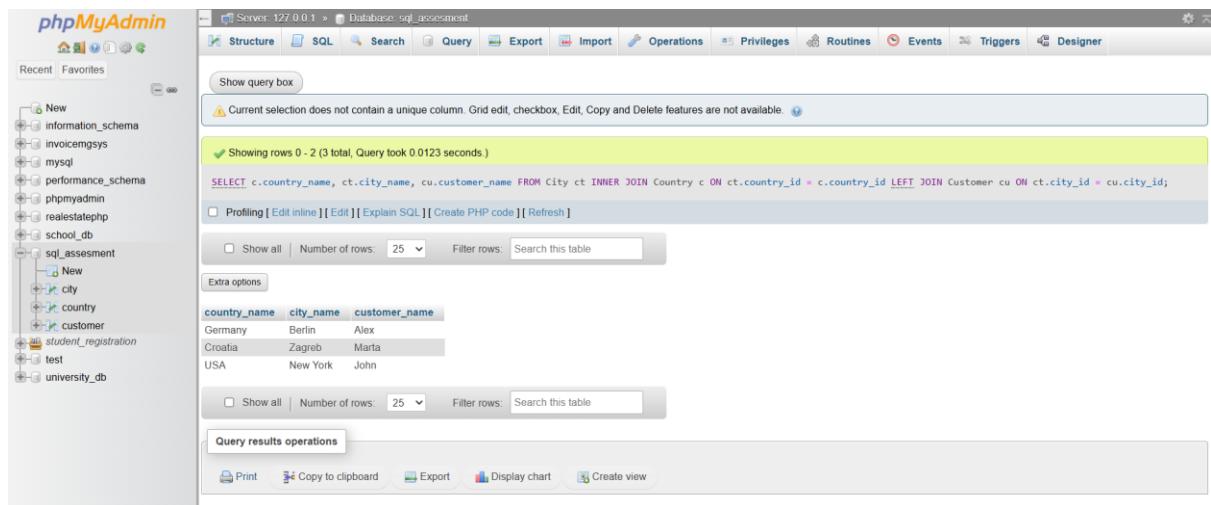
country_name	city_name	customer_name
Germany	Berlin	Alex
Croatia	Zagreb	Marta
USA	New York	John
Spain	NULL	NULL
Russia	NULL	NULL
- Bottom Buttons:** Print, Copy to clipboard, Export, Display chart, Create view.

INNER JOIN (Task 2):

SELECT

```
c.country_name,  
ct.city_name,  
cu.customer_name  
FROM City ct  
INNER JOIN Country c  
ON ct.country_id = c.country_id  
LEFT JOIN Customer cu  
ON ct.city_id = cu.city_id;
```

SCREENSHOT:



The screenshot shows the phpMyAdmin interface with the following details:

- Server:** 127.0.0.1 | **Database:** sql_assessment
- Structure, SQL, Search, Export, Import, Operations, Privileges, Routines, Events, Triggers, Designer** tabs are visible.
- Query Box:** Shows the executed query:

```
SELECT c.country_name, ct.city_name, cu.customer_name FROM City ct INNER JOIN Country c ON ct.country_id = c.country_id LEFT JOIN Customer cu ON ct.city_id = cu.city_id;
```
- Message Bar:** "Showing rows 0 - 2 (3 total, Query took 0.0123 seconds.)"
- Table Results:** A table with columns `country_name`, `city_name`, and `customer_name`. The data is:

country_name	city_name	customer_name
Germany	Berlin	Alex
Croatia	Zagreb	Marta
USA	New York	John
- Extra Options:** Buttons for Show all, Number of rows (set to 25), Filter rows, and Search this table.
- Query Results Operations:** Buttons for Print, Copy to clipboard, Export, Display chart, and Create view.