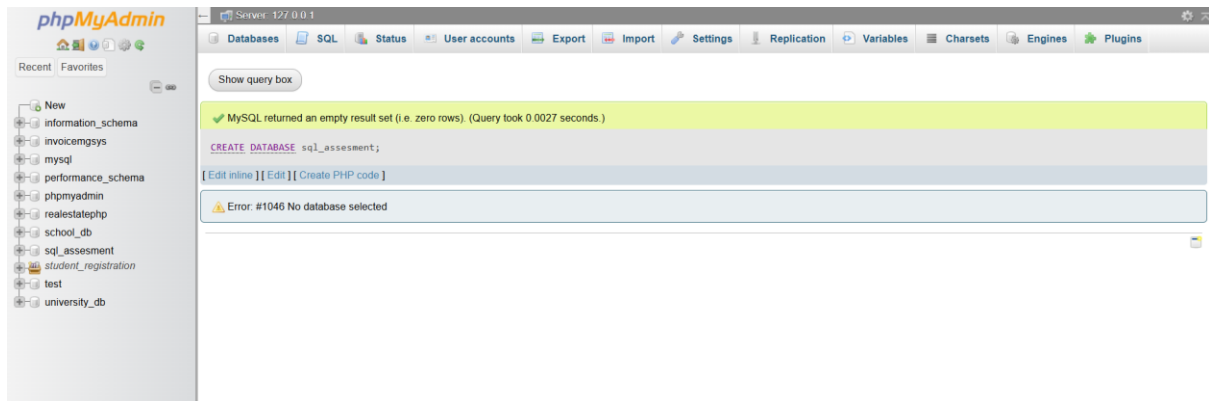


CODE FOR CREATING DATABASE:

```
CREATE DATABASE world_data;
```

SCREENSHOT:



CODE FOR CREATING DATA:

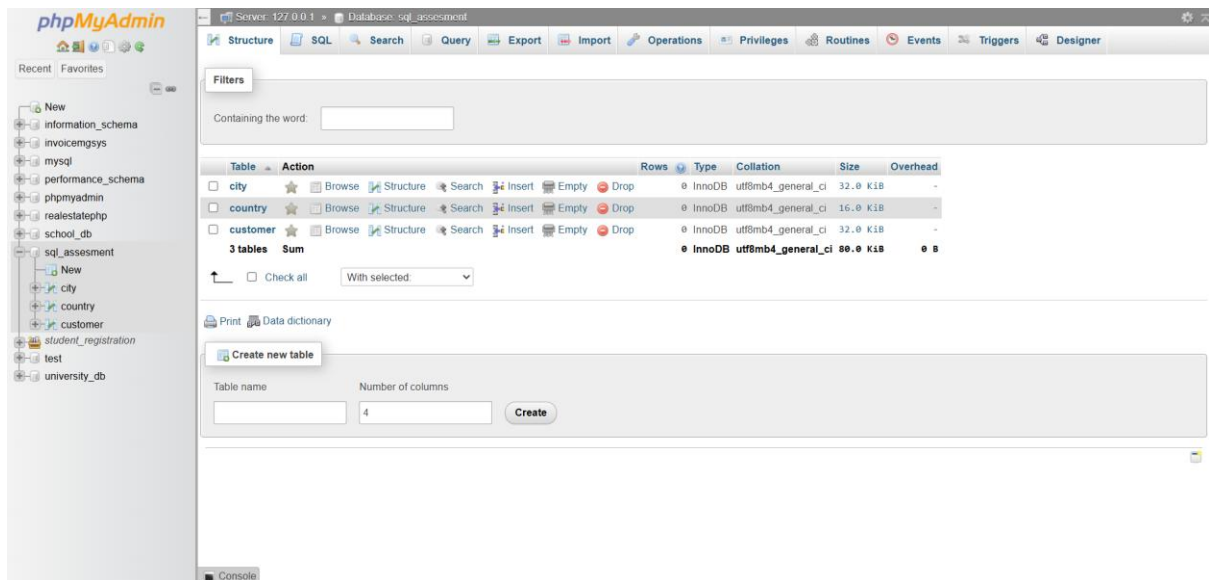
```
CREATE TABLE Country (  
country_id INT PRIMARY KEY,  
country_name VARCHAR(50)  
);
```

```
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:



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 screenshot shows the phpMyAdmin interface for the 'city' table. The table has three 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

The screenshot shows the phpMyAdmin interface for the 'country' table. The table has two 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

The screenshot shows the phpMyAdmin interface for the 'customer' table. The table has three 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 a SQL query executed. The query is:

```
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;
```

The results are displayed in a table with 5 rows:

country_name	city_name	customer_name
Germany	Berlin	Alex
Croatia	Zagreb	Marta
USA	New York	John
Spain	NULL	NULL
Russia	NULL	NULL

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. On the left is a sidebar with a database tree. The main panel displays a SQL query and its results. The query is:

```
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;
```

Below the query, the results are shown in a table with 3 rows and 3 columns: country_name, city_name, and customer_name.

country_name	city_name	customer_name
Germany	Berlin	Alex
Croatia	Zagreb	Marta
USA	New York	John

At the bottom, there are options for query results operations: Print, Copy to clipboard, Export, Display chart, and Create view.