

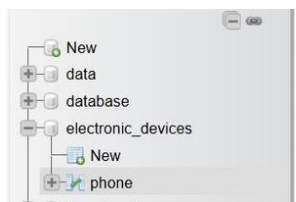
Databases Project

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Areej merei Alsifsafi	444010192

Data Base : Electronic devices

First Table : Phone

Creating data base, electronic devices and phone tables:



#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 id	int(50)			No	None			Change Drop More
<input type="checkbox"/>	2 name	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/>	3 version	int(100)			No	None			Change Drop More
<input type="checkbox"/>	4 price	decimal(10,0)			No	None			Change Drop More

Insert Processor stored



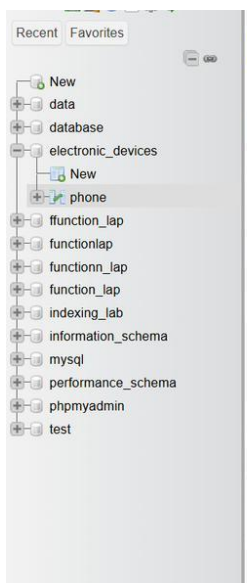
Show query box

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0155 seconds)

```
CREATE PROCEDURE insert_phone( IN id INT(50), IN name VARCHAR(100), IN version INT(100), IN price DECIMAL(10,0) ) BEGIN INSERT INTO products (id, name, version, price) VALUES (id, name, version, price); END;
```

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

Enter values in three rows



Recent Favorites

Showing rows 0 - 2 (3 total, Query took 0.0004 seconds)

`SELECT * FROM `phone``

☐ 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

Extra options

			id	name	version	price
<input type="checkbox"/>	Edit	Copy	Delete	1	Apple iphone-16	2024 6556
<input type="checkbox"/>	Edit	Copy	Delete	2	Galaxy s-24	2023 4200
<input type="checkbox"/>	Edit	Copy	Delete	3	Huawei pura-70	2022 3299

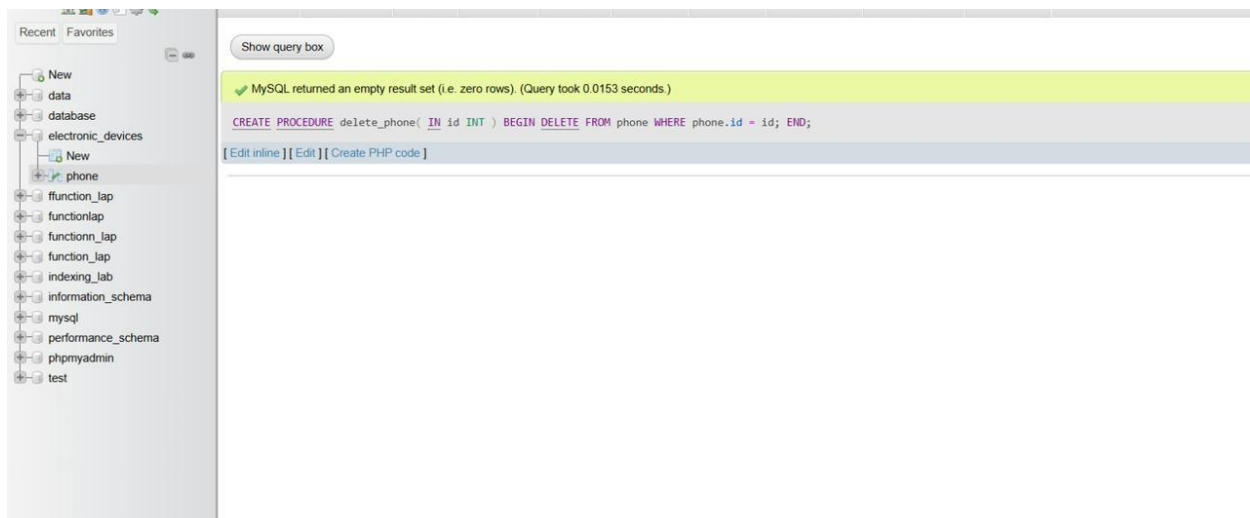
☐ Check all | With selected: [Edit](#) [Copy](#) [Delete](#) [Export](#)

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

Query results operations

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Delete procedure stored



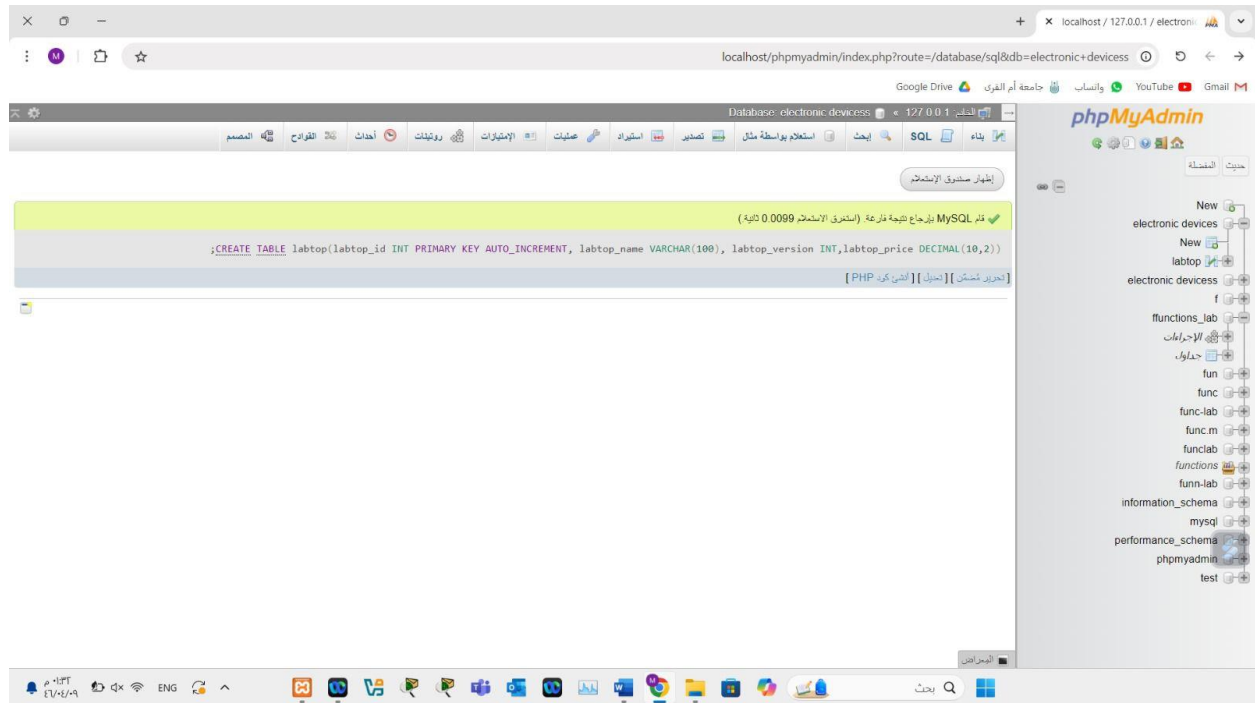
Delete the second row



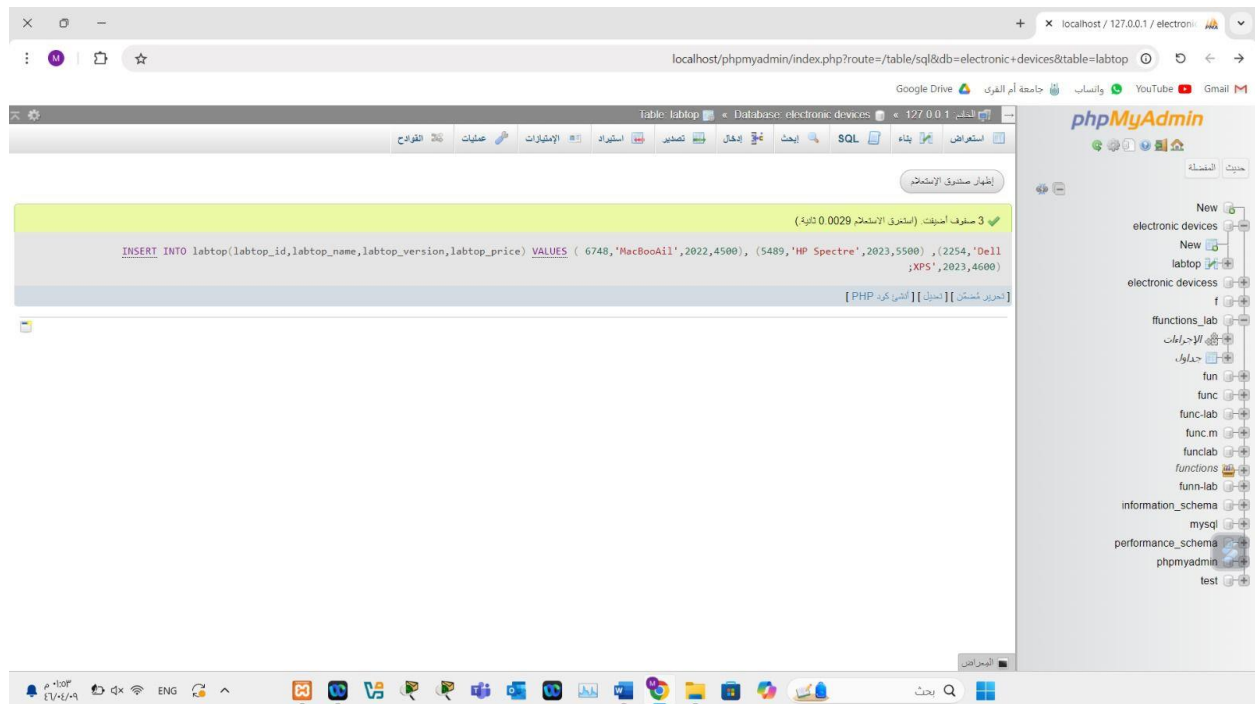
Second Table : Laptop

Index:

Create table:



Insert data:



Select the table and select where:

localhost/phpmyadmin/index.php?route=/table/sql&db=electronic+devices&table=labtop

Database: electronic devices 127.0.0.1

Showing rows 0 - 2 (المجموع: 3, استغرق الاستعلام 0.0002 ثانية)

```
SELECT * FROM `labtop` WHERE 1
```

labtop_price labtop_version labtop_name labtop_id

4600.00	2023	Dell XPS 2254	
5500.00	2023	HP Spectro 5489	
4500.00	2022	MacBooAll 6748	

Create index:

localhost/phpmyadmin/index.php?route=/table/sql&db=electronic+devices&table=labtop

Database: electronic devices 127.0.0.1

MySQL يزداد نتيجة فاعلة (استغرق الاستعلام 0.0137 ثانية)

```
CREATE INDEX idx_labtop_name ON labtop (labtop_name)
```

Query with index:

localhost/phpmyadmin/index.php?route=/table/sql&db=electronic+devices&table=labtop

Database: electronic devices 127.0.0.1

Showing rows 0 - 2 (المجموع: 3, استغرق الاستعلام 0.0004 ثانية)

```
SELECT * FROM `labtop`
```

labtop_price labtop_version labtop_name labtop_id

4600.00	2023	Dell XPS 2254	
5500.00	2023	HP Spectro 5489	
4500.00	2022	MacBooAll 6748	

Extra options

عرض الكل | عدد الأسطر: 25 | تصفية الصفوف: | بحث في هذا الجدول: | Sort by key: لا شيء

عشوائية على نتائج الاستعلام

إظهار صندوق الاستعلام

Create a composite index:

localhost/phpmyadmin/index.php?route=/table/sql&db=electronic+devices&table=labtop

Database: electronic devices 127.0.0.1

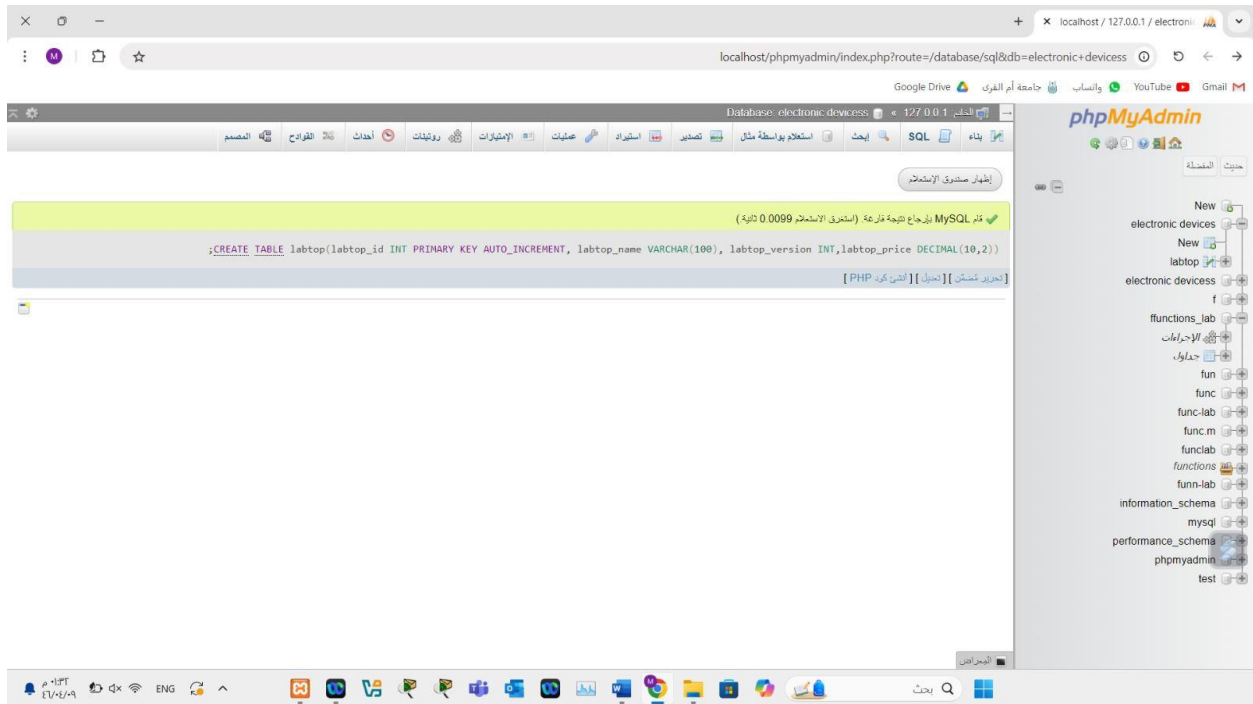
MySQL يزداد نتيجة فاعلة (استغرق الاستعلام 0.0113 ثانية)

```
CREATE INDEX idx_labtop_name_labtop_price ON labtop (labtop_name, labtop_price)
```

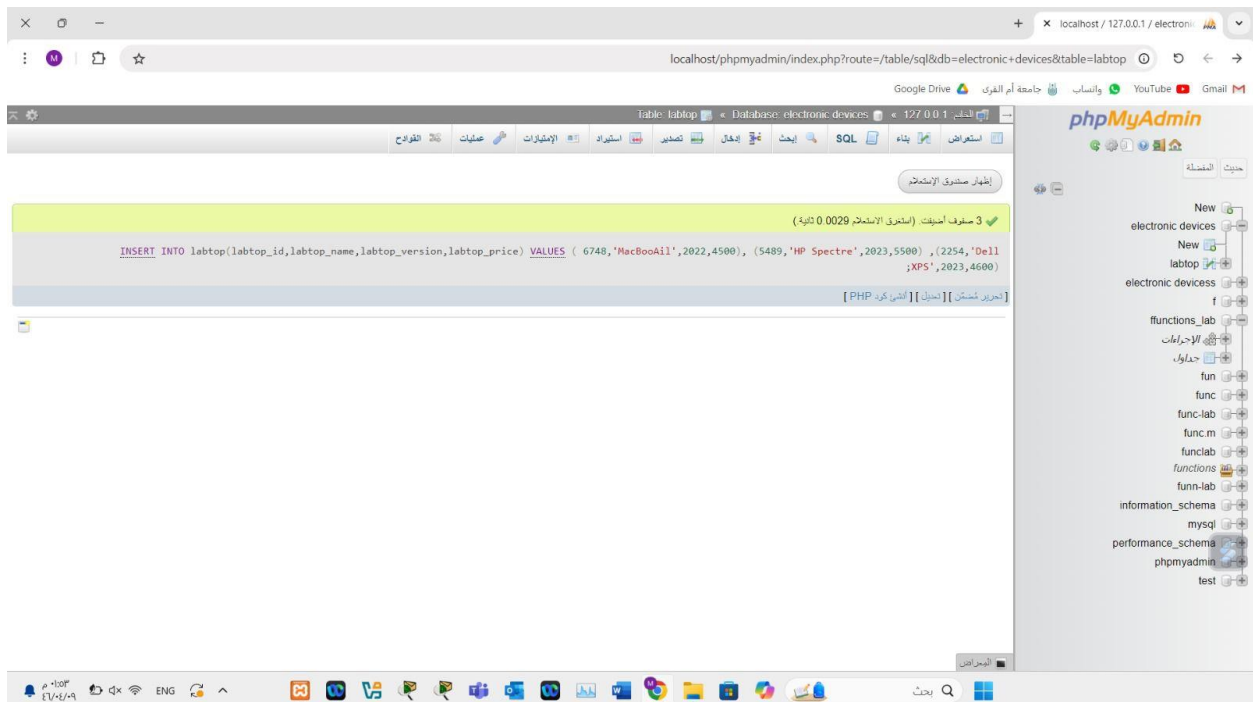
[تعديل] [تعديل] [PHP كود]

Function :

-Create Table



-Insert Data



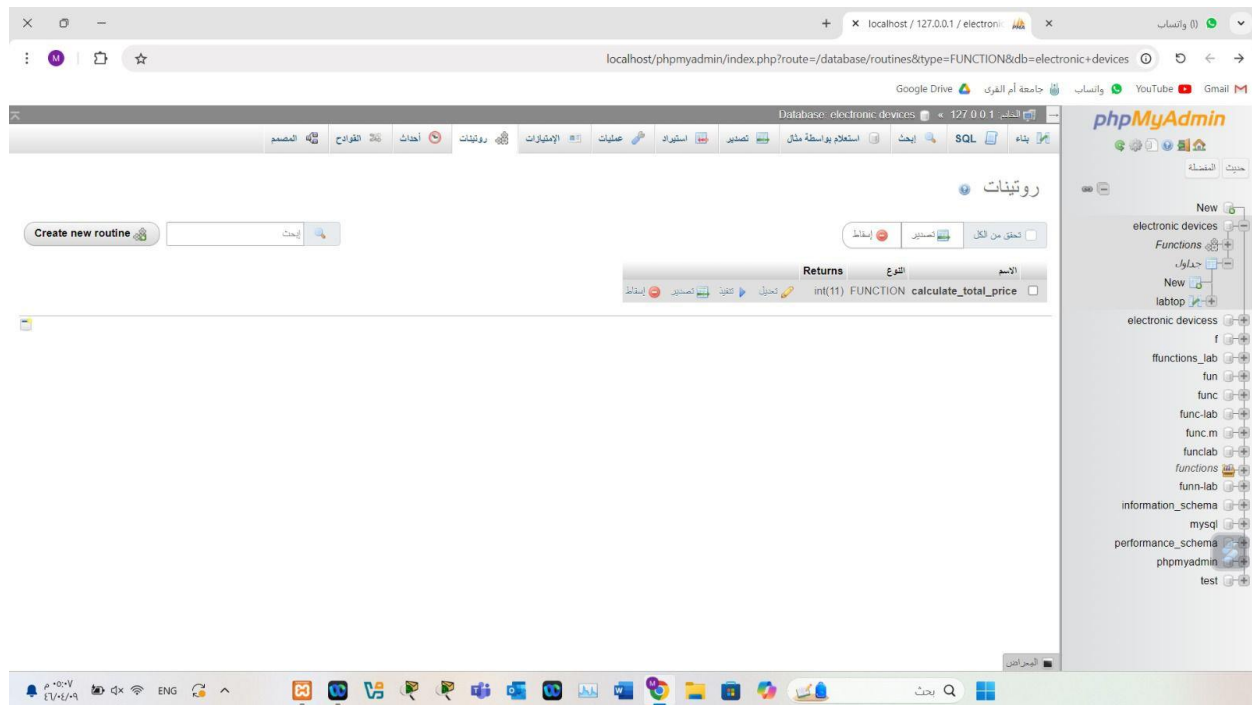
-Create Simple Function

✅ قام MySQL بإرجاع نتيجة فارغة. (استغرق الاستعلام 0.0035 ثانية)

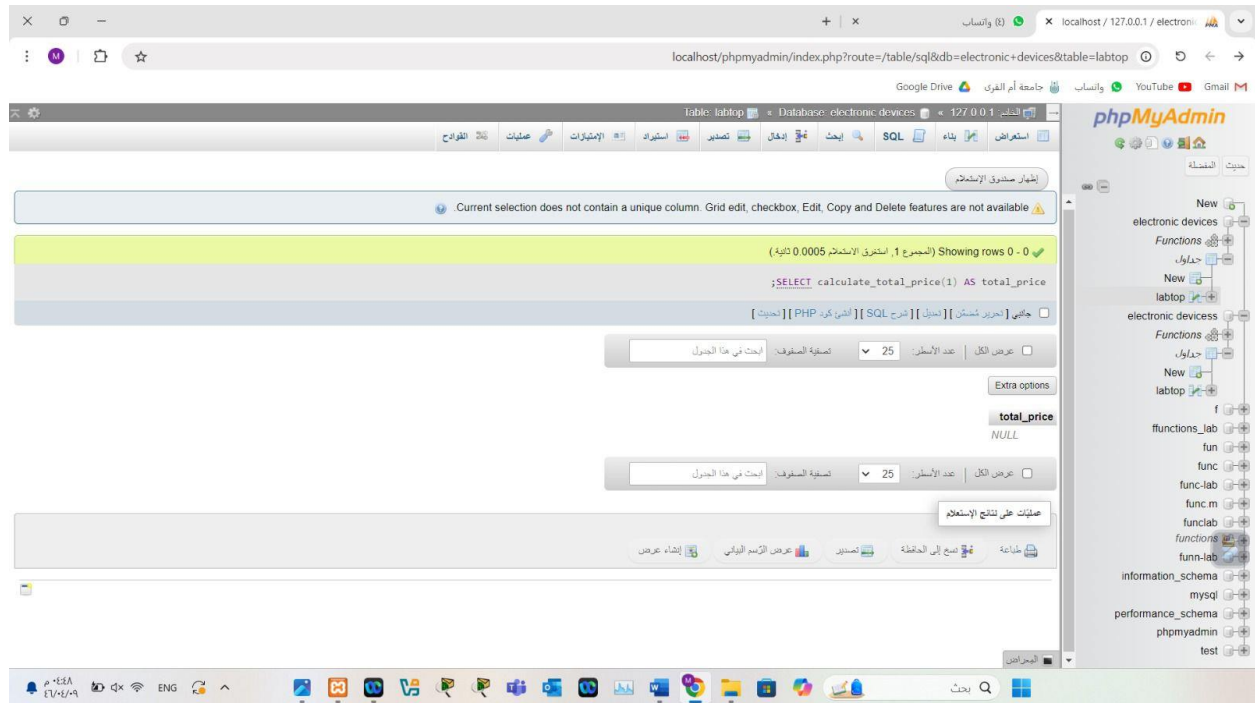
```
CREATE FUNCTION calculate_total_price(p_labtop_id INT) RETURNS DECIMAL(10,2) BEGIN DECLARE total_price DECIMAL(10,2); SELECT labtop_price * labtop_version INTO  
;total_price FROM labtop WHERE labtop_id = p_labtop_id; RETURN total_price; END
```

[تحرير مضمّن] [تحديث] [النسخ كود PHP]

-This Function

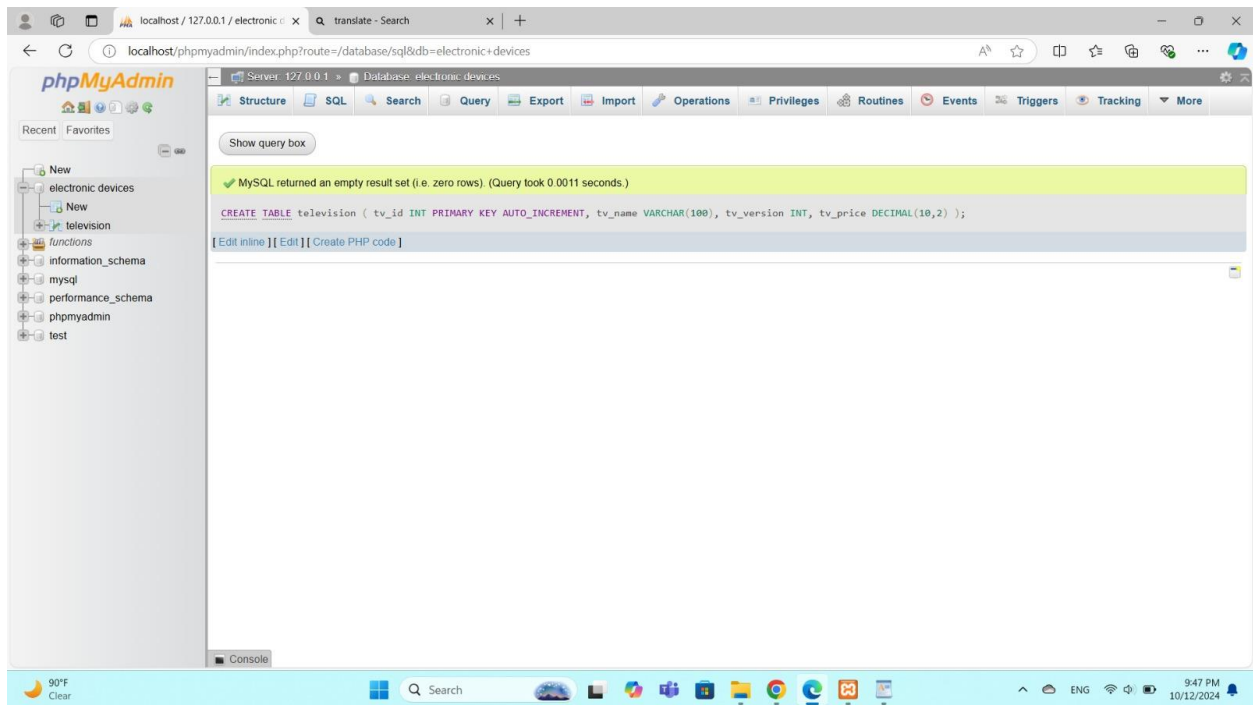


-Call The Function

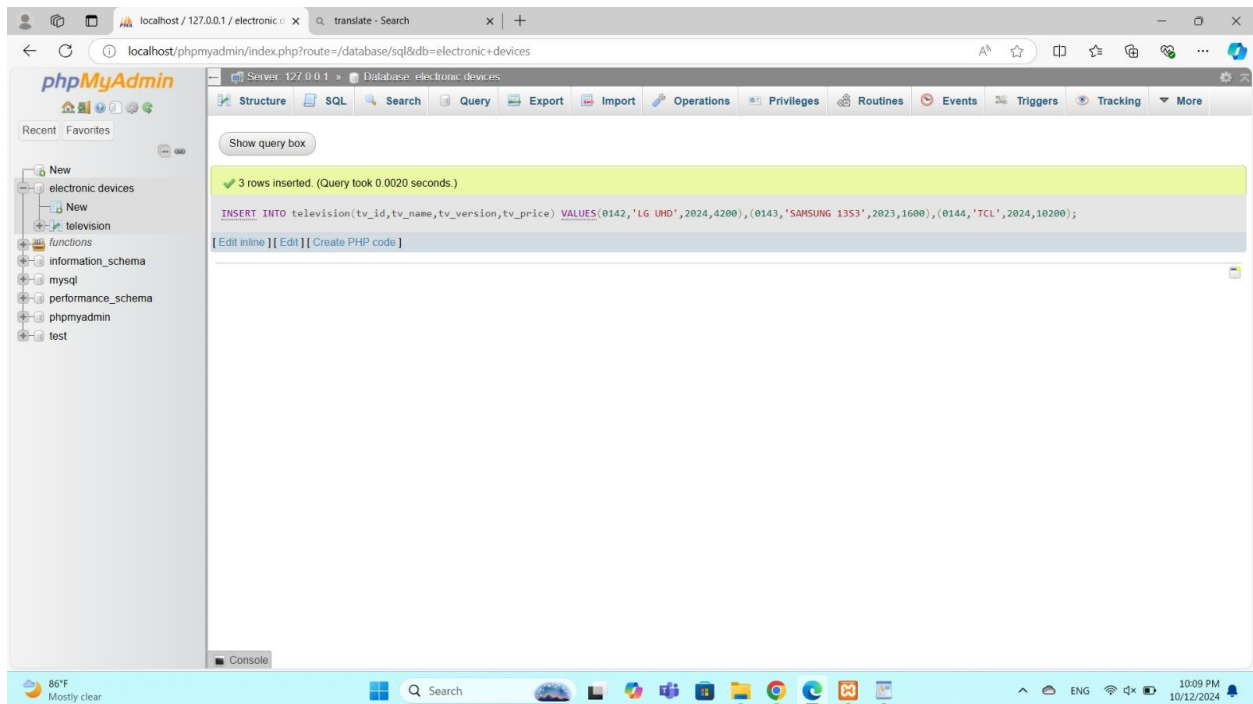


Third Table : televisions

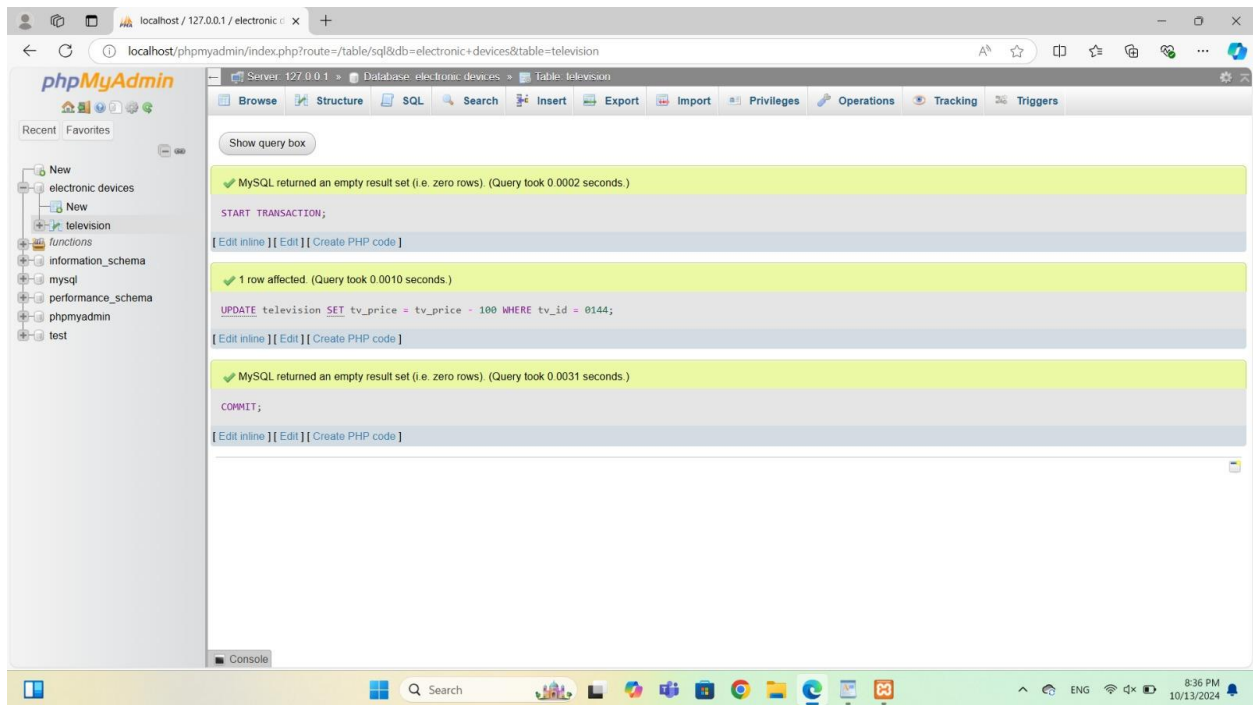
Create Table :



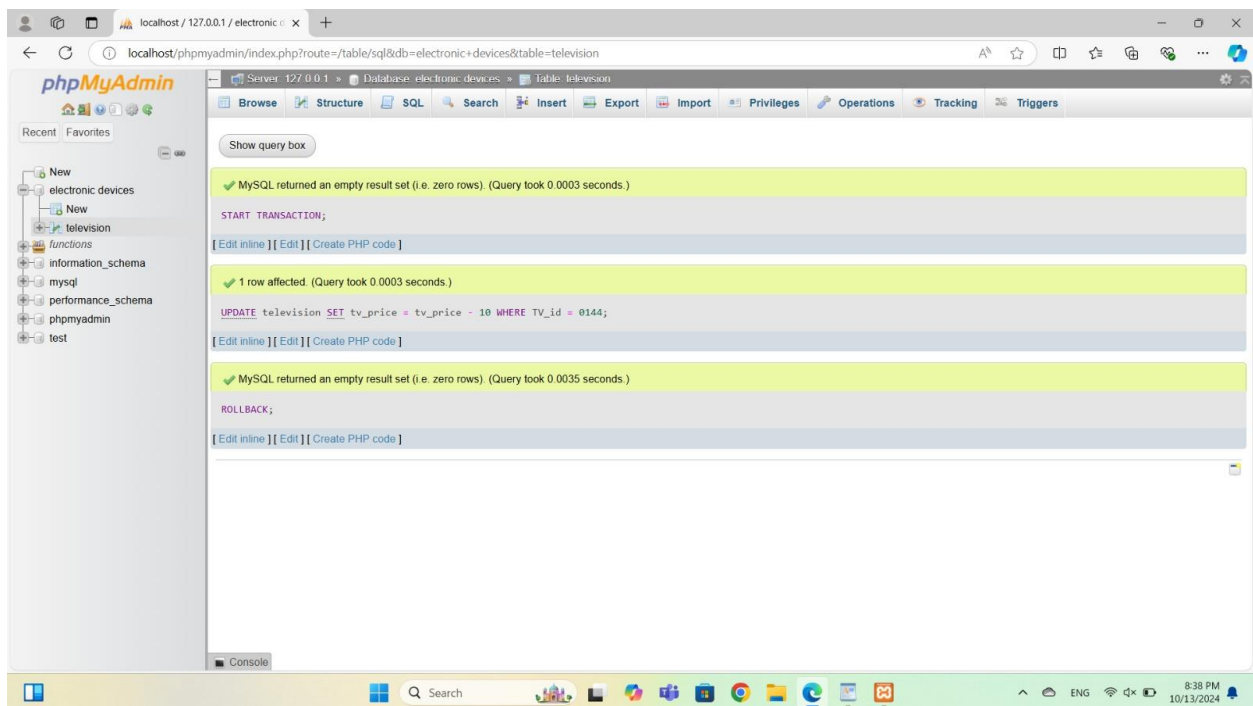
Insert Data:

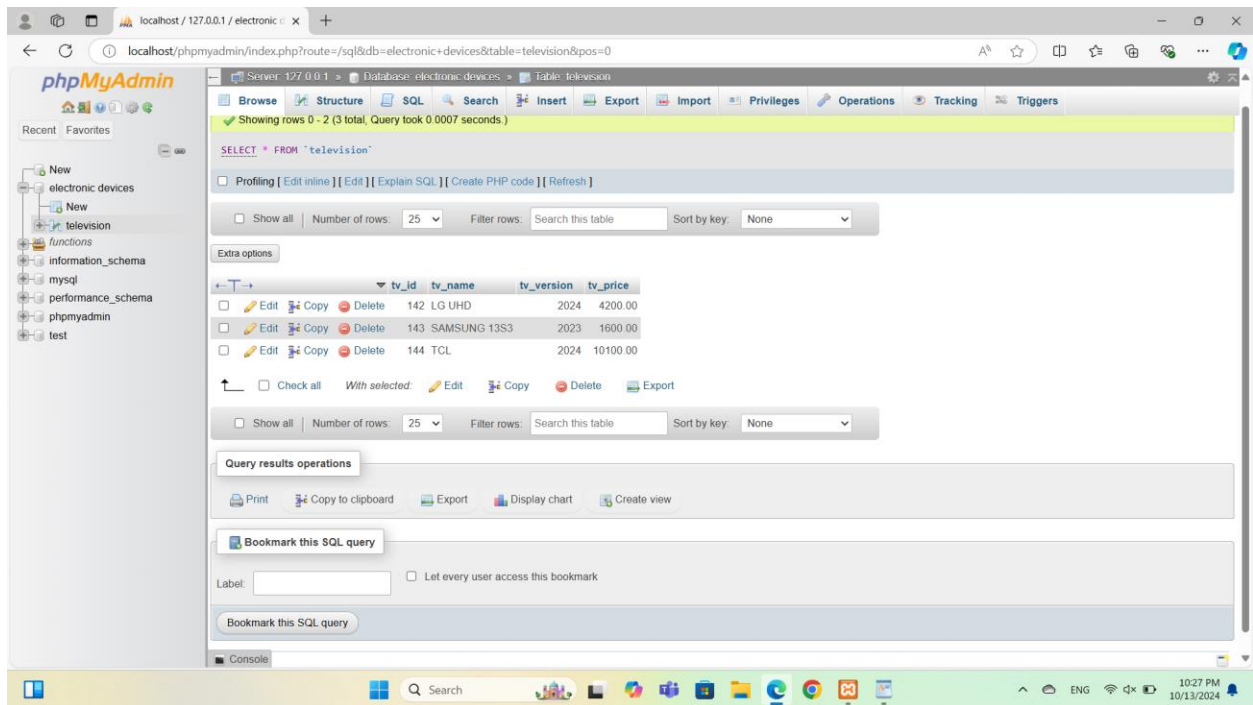


Transaction:

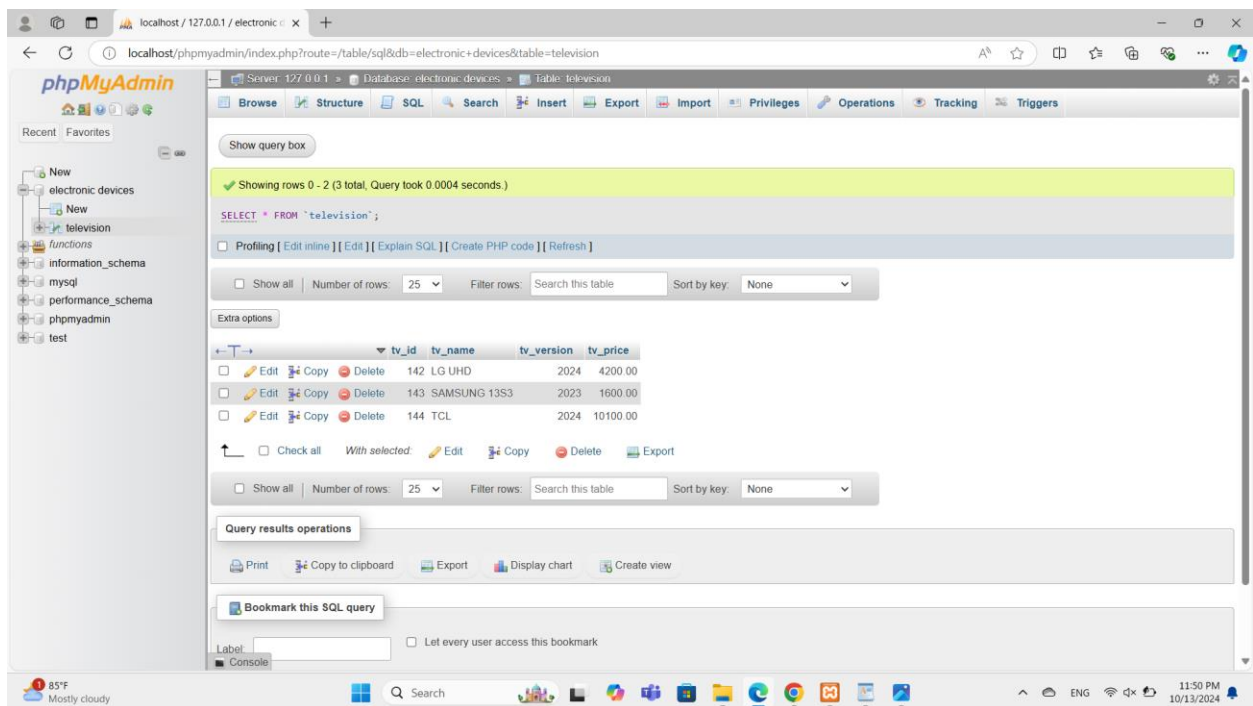


Rollback Transaction:

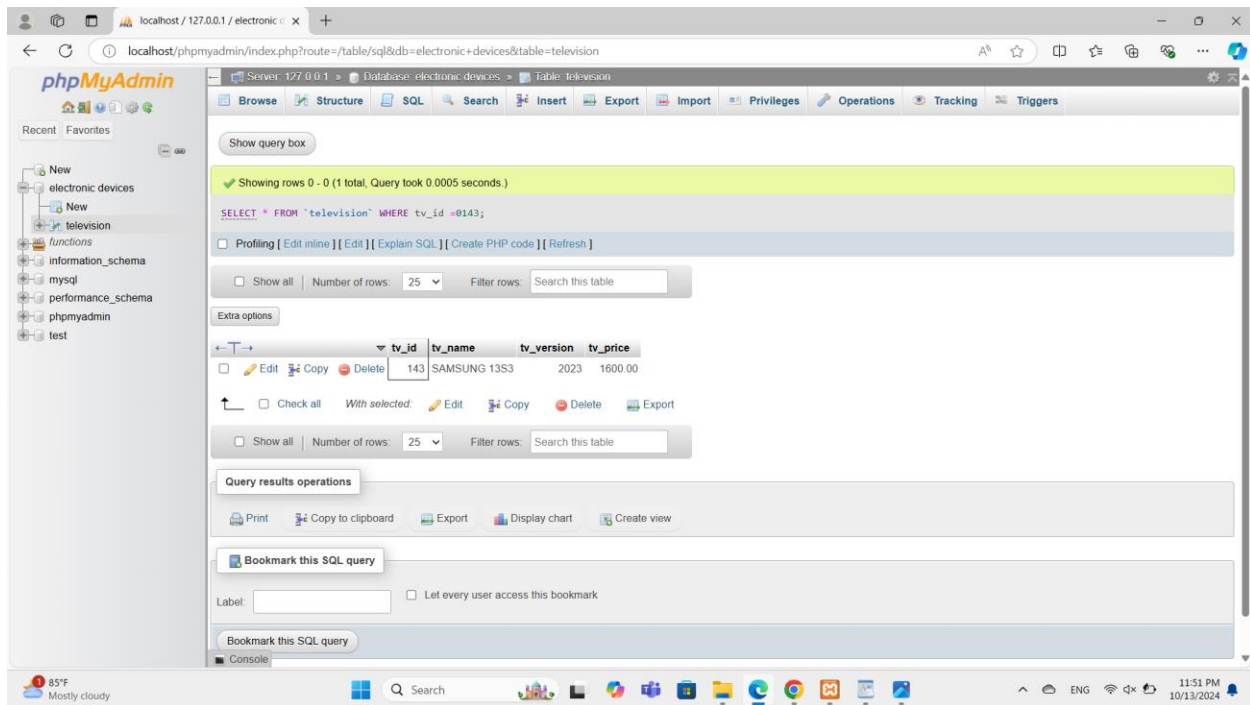




Select the table:

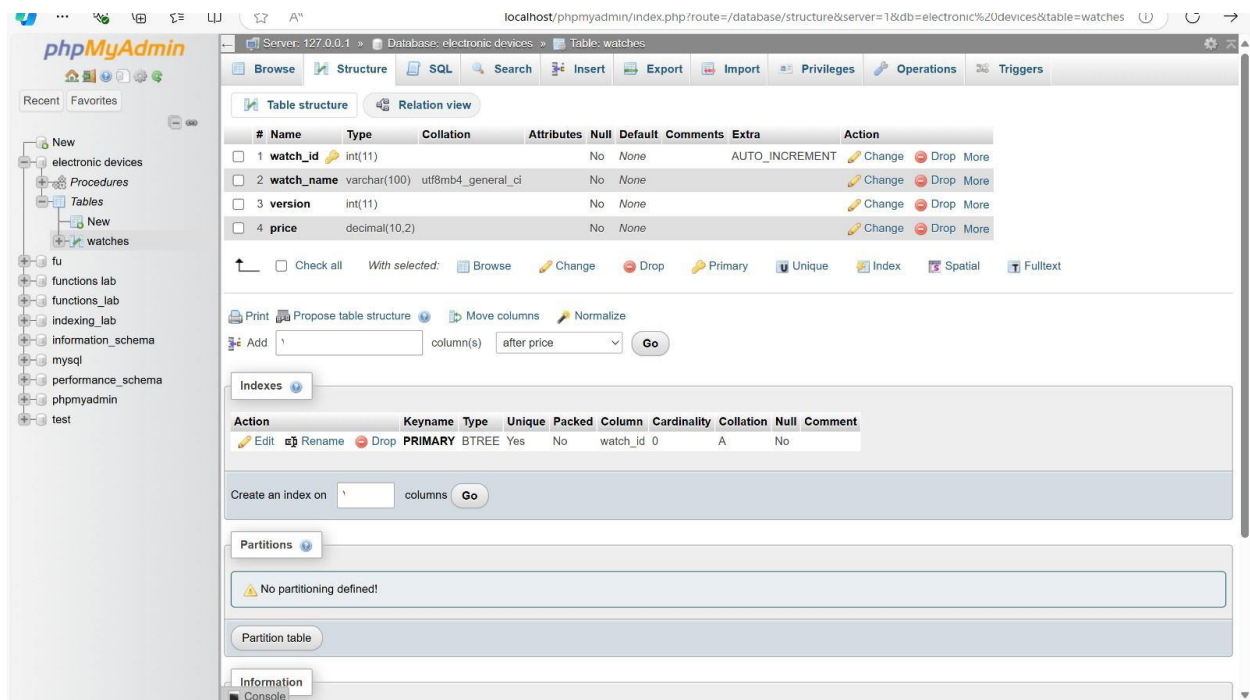


Select WHERE :

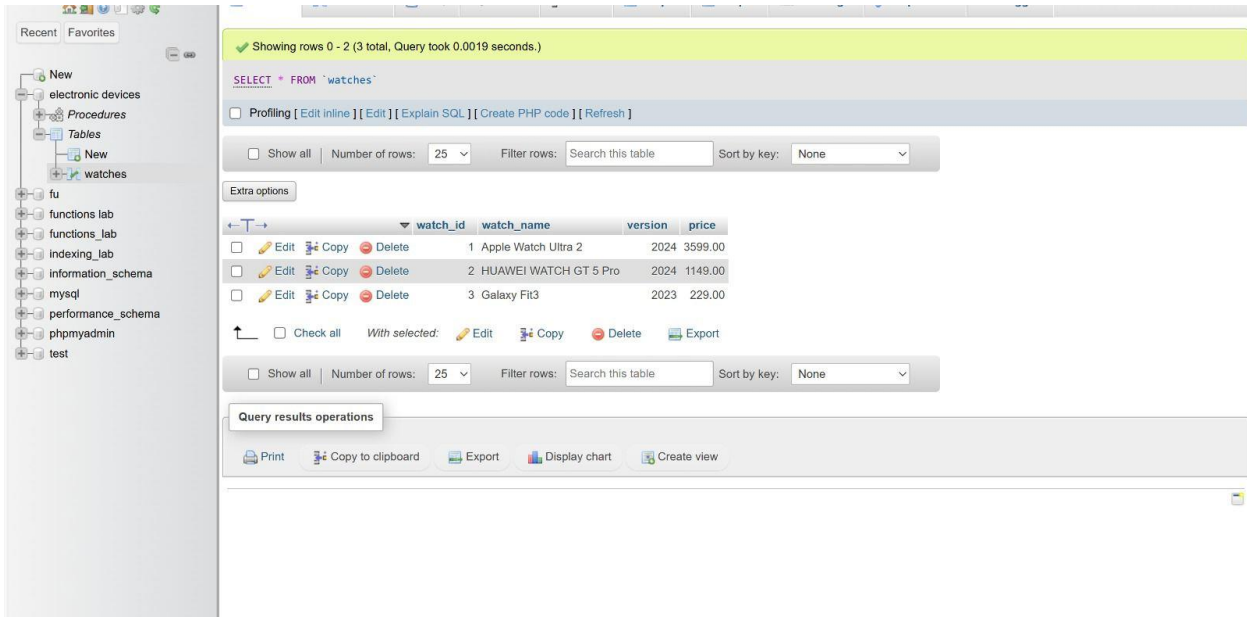


Forth Table :

Create a database and table:



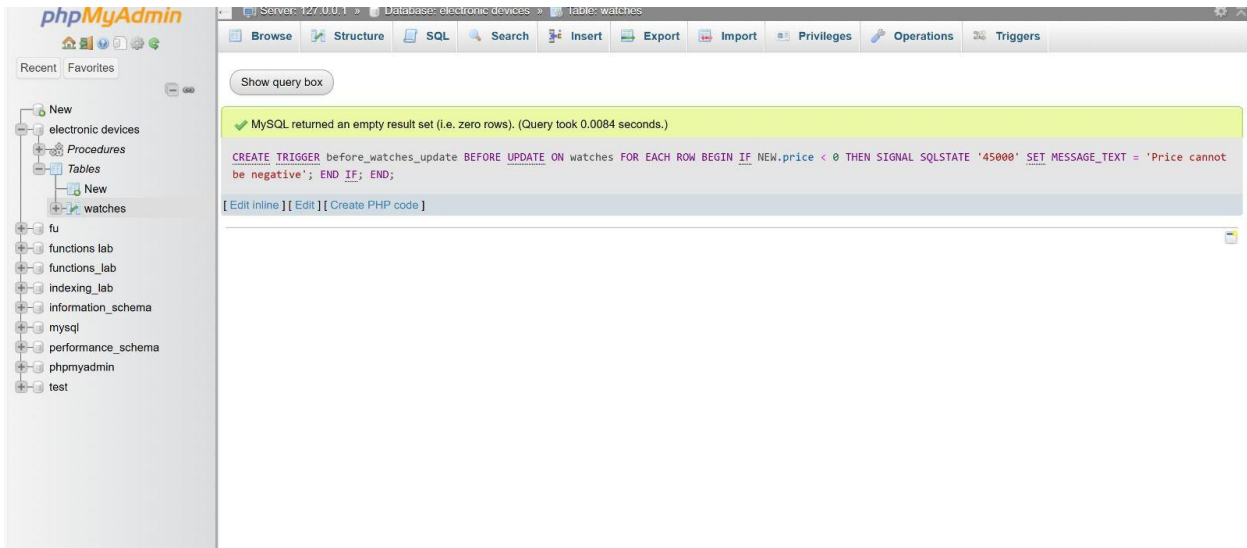
Insert Data :



The screenshot shows the phpMyAdmin interface with the 'watches' table selected. The table contains 3 rows of data. The query results are displayed as follows:

	watch_id	watch_name	version	price
<input type="checkbox"/>	1	Apple Watch Ultra 2	2024	3599.00
<input type="checkbox"/>	2	HUAWEI WATCH GT 5 Pro	2024	1149.00
<input type="checkbox"/>	3	Galaxy Fit3	2023	229.00

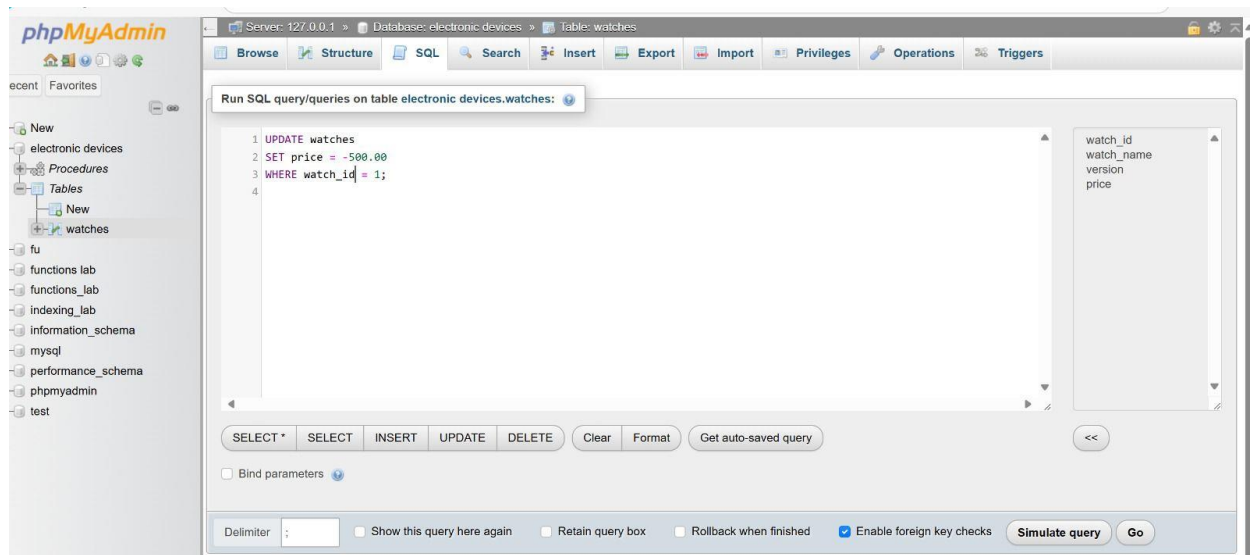
Create a trigger for price validation:



The screenshot shows the phpMyAdmin interface with the 'watches' table selected. The SQL query to create a trigger for price validation is displayed in the query editor:

```
CREATE TRIGGER before_watches_update BEFORE UPDATE ON watches FOR EACH ROW BEGIN IF NEW.price < 0 THEN SIGNAL SQLSTATE '45000' SET MESSAGE_TEXT = 'Price cannot be negative'; END IF; END;
```

Test the trigger:



Error message because entering a negative value:



Update the price to id1:



After Update:

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- electronic devices
 - Procedures
 - Tables
 - New
 - watches
- fu
- functions lab
- functions_lab
- indexing_lab
- information_schema
- mysql
- performance_schema
- phpmyadmin
- test

Showing rows 0 - 2 (3 total, Query took 0.0003 seconds.)

SELECT * FROM `watches`

☐ 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

Extra options

	watch_id	watch_name	version	price
<input type="checkbox"/> Edit Copy Delete	1	Apple Watch Ultra 2	2024	3500.00
<input type="checkbox"/> Edit Copy Delete	2	HUAWEI WATCH GT 5 Pro	2024	1149.00
<input type="checkbox"/> Edit Copy Delete	3	Galaxy Fit3	2023	229.00

☐ 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](#)

Create a trigger for auditing:

Recent Favorites

New

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 - Procedures
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 - New
 - watches
 - watches_audit
- fu
- functions lab
- functions_lab
- indexing_lab
- information_schema
- mysql
- performance_schema
- phpmyadmin
- test

Show query box

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0537 seconds.)

```
CREATE TABLE watches_audit (
  audit_id INT PRIMARY KEY AUTO_INCREMENT,
  watch_id INT,
  old_price DECIMAL(10, 2),
  new_price DECIMAL(10, 2),
  timestamp TIMESTAMP
  DEFAULT CURRENT_TIMESTAMP );
```

[\[Edit inline \]](#) [\[Edit \]](#) [\[Create PHP code \]](#)

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0082 seconds.)

```
CREATE TRIGGER after_watches_update_2 AFTER UPDATE ON watches FOR EACH ROW BEGIN
  INSERT INTO watches_audit (watch_id, old_price, new_price) VALUES
  (OLD.watch_id, OLD.price, NEW.price);
END;
```

[\[Edit inline \]](#) [\[Edit \]](#) [\[Create PHP code \]](#)

Test the trigger:

Recent Favorites

New

- electronic devices
 - Procedures
 - Tables
 - New
 - watches
 - watches_audit
- fu
- functions lab
- functions_lab
- indexing_lab
- information_schema
- mysql
- performance_schema
- phpmyadmin
- test

Show query box

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0537 seconds.)

```
CREATE TABLE watches_audit (
  audit_id INT PRIMARY KEY AUTO_INCREMENT,
  watch_id INT,
  old_price DECIMAL(10, 2),
  new_price DECIMAL(10, 2),
  timestamp TIMESTAMP
  DEFAULT CURRENT_TIMESTAMP );
```

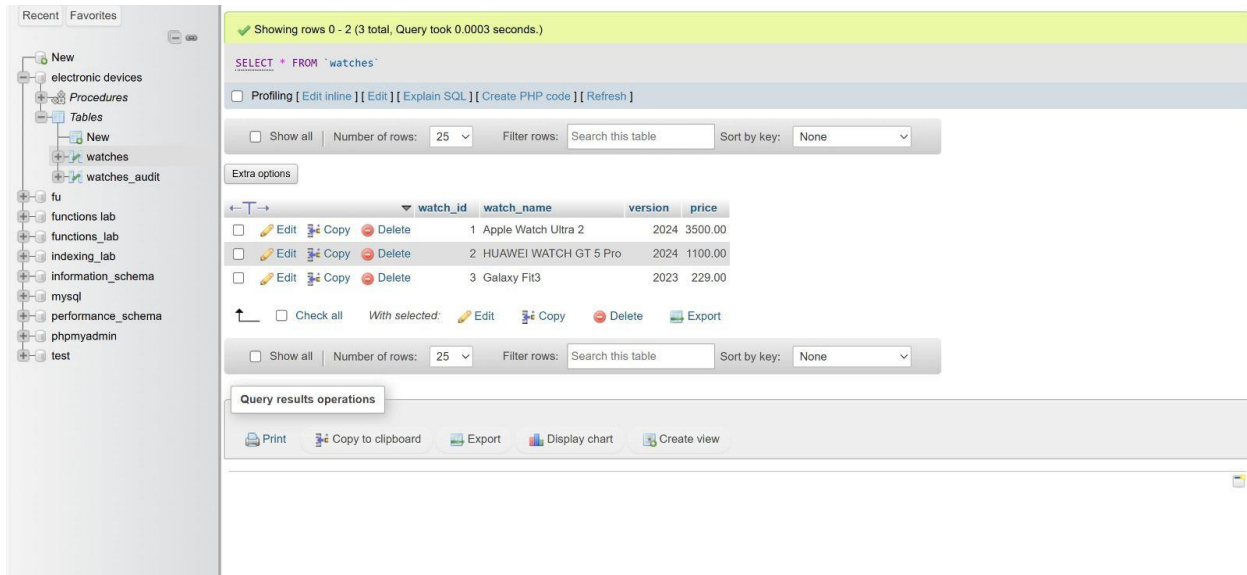
[\[Edit inline \]](#) [\[Edit \]](#) [\[Create PHP code \]](#)

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0082 seconds.)

```
CREATE TRIGGER after_watches_update_2 AFTER UPDATE ON watches FOR EACH ROW BEGIN
  INSERT INTO watches_audit (watch_id, old_price, new_price) VALUES
  (OLD.watch_id, OLD.price, NEW.price);
END;
```

[\[Edit inline \]](#) [\[Edit \]](#) [\[Create PHP code \]](#)

After Update:



Showing rows 0 - 2 (3 total, Query took 0.0003 seconds.)

```
SELECT * FROM `watches`
```

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

Extra options

	watch_id	watch_name	version	price
<input type="checkbox"/>	1	Apple Watch Ultra 2	2024	3500.00
<input type="checkbox"/>	2	HUAWEI WATCH GT 5 Pro	2024	1100.00
<input type="checkbox"/>	3	Galaxy Fit3	2023	229.00

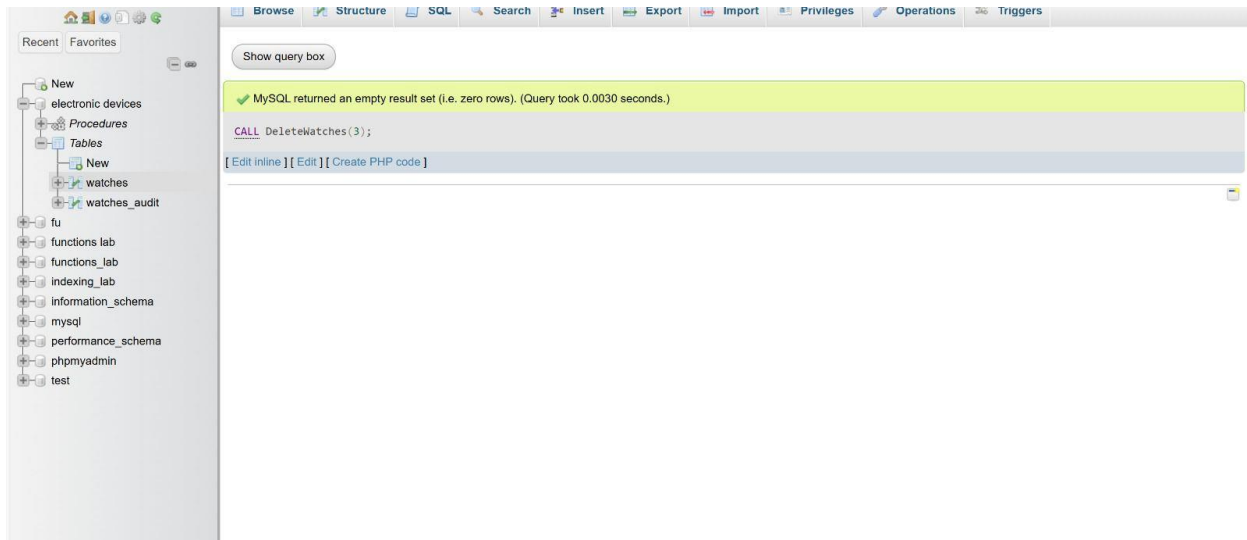
Check all | With selected: Edit Copy Delete Export

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

Delete Id3:

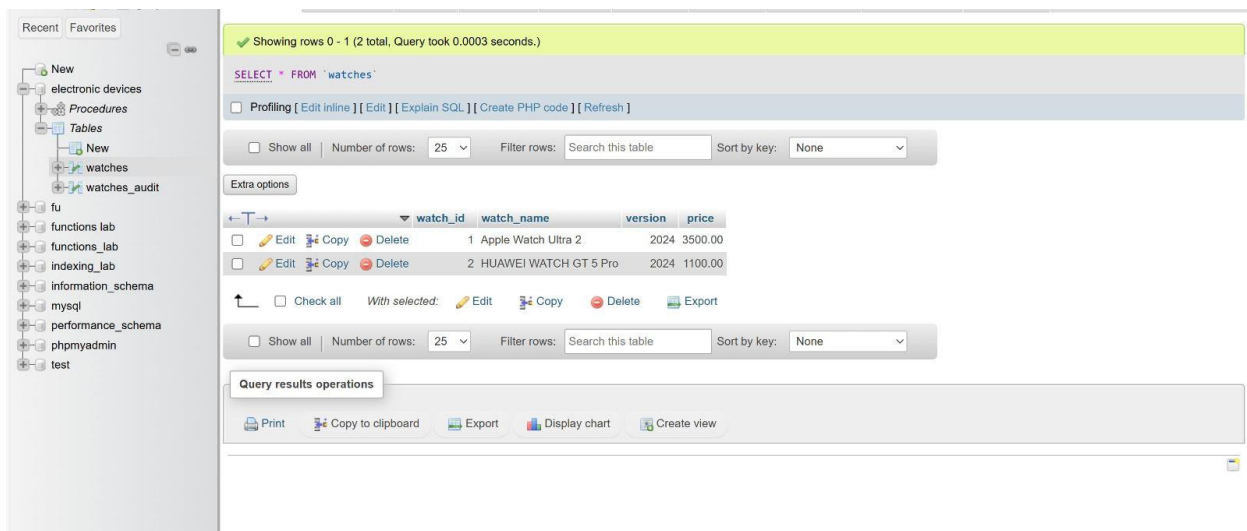


MySQL returned an empty result set (i.e. zero rows). (Query took 0.0030 seconds.)

```
CALL Deletewatches(3);
```

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

After Delete:



Create Tables	Areej, Mawda,Fatima,Shahad
Inserting Data	Areej, Mawda,Fatima,Shahad
Select The Table, Select Where	Areej, Mawda,Fatima,Shahad
Create index & function	Mawada
Create procedure, call procedure	Areej
Create Trigger, Test Trigger	Fatima
Create , Use Transaction	Shahad