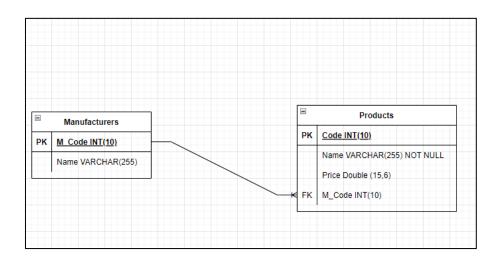
CMP020L012A

Data Analytics

2022/23

Week-2
Lab Task-2 (DDL and DML Operations) Solution



1. Let's assume there is a database called "ManufacturerInfo" which stores information about the manufactured products and their manufacturers details for a store. Your task will be to create the following tables:

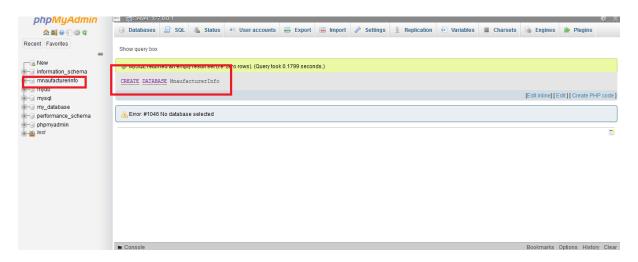
"Manufacturers" containing attributes: Manufacturer's code and name.

"Products" containing attributes: Product's code, Name, price and manufacturer's code (manufacturer's code will be referred here as a foreign key constraint).

Remember to specify the constraints while defining the tables accordingly and include "NOT NULL" and/or, Unique Key(UK) constraints for the fields/attributes of both the table where appropriate.



Ans:



Database "ManufacturerInfo" created.



"Manufacturers" table created.



[&]quot;Products" table created.



2. Populate the tables with the records provided here.

Manufacturer's details: (Code, Name)

1, Sony

2, Samsung

4, Dell

5, HP

6, Winchester

Product's details: (Code, Name, Price, Manufacturer)

1,'Headphone',240,2

2,'Pendrive',120,2

3,'Hard Disk',150,1

4,'DVD',5,6

5,'Monitor',240,4

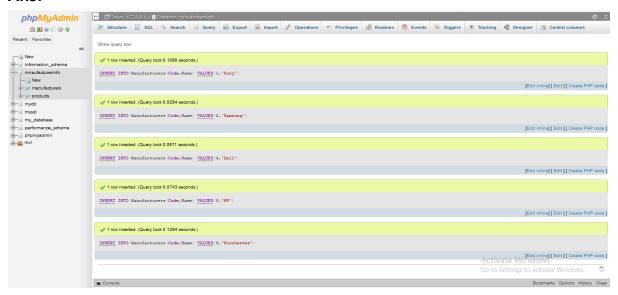
6,'Tablet',180,5

7,'CD drive',90,6

8,'Printer',270,5

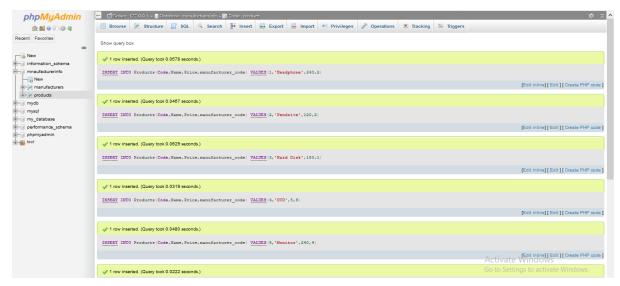
9,'DVD burner',180,6

Ans:



Manufacturers table populated.



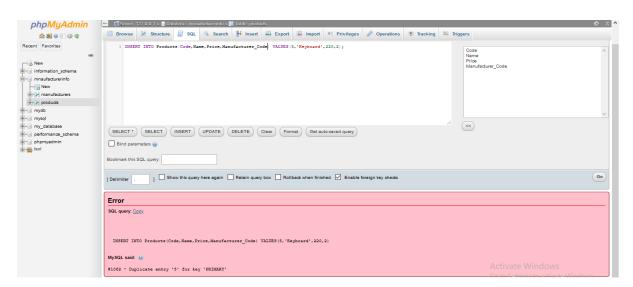


Products table populated.

3. Try to insert the following record to the table "Products". Also, put your opinion against this successful/unsuccessful transaction.

5	keyboard	220	2

Ans:

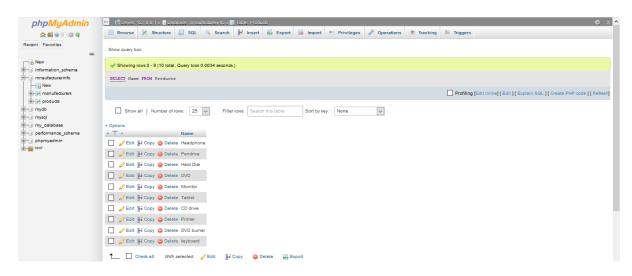


The transaction is unsuccessful because duplication of primary key occurred and value "5" already exists in the table for another record.



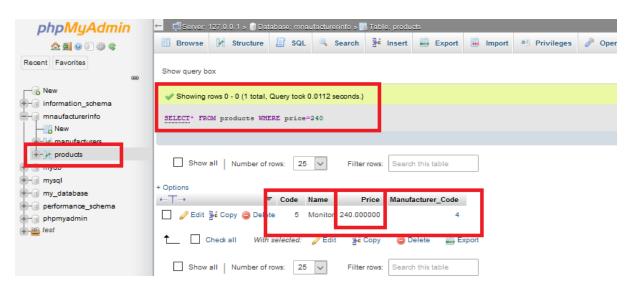
4. Find the product names in the store.

Ans:



5. Find the product details where the price of the product is 240.

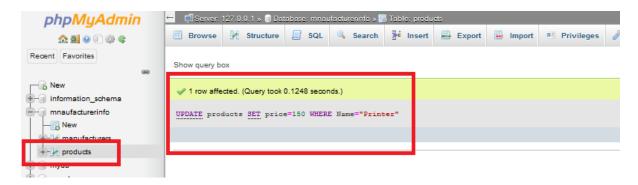
Ans:



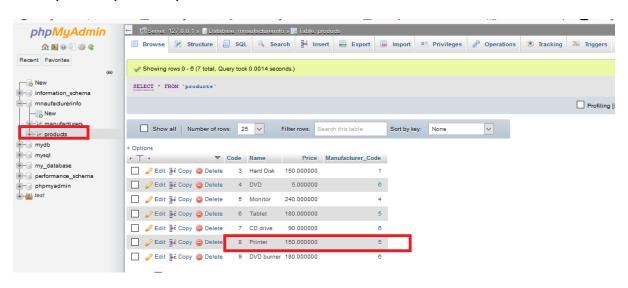


6. Update the price of the printer as 150 in the table.

Ans:



The updated price of printer:



7. Define manufacturer's name as a unique key constraint.

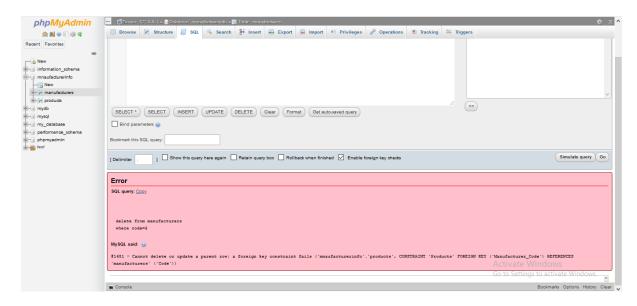
Ans:





8. Delete the manufacturers details where the manufacturer's code is 2. Put your observation on the outcome of the transaction.

Ans:



Here, manufacturer's code in the table manufacturers (parent table) was referred as a foreign key in the table "products" (child table) while defining them, means "code" attribute has become a referential attribute for the child table.