RDBMS and MySQL - Assignment I

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Question 1:

1. Create on Product Table with Schema

Product(pid (pk), price, name)
Cart(pid(fk), qty)

Insert all unique records (put your first name as a suffix to each product)
Find out the total price to be paid at the time of checkout.

Submission -
- Document each step with screenshots and SQL scripts/commands and submit the URL of the document.
- The Document should be as detailed as possible.

Creating database:

```
mysql> CREATE DATABASE RDBMS_Assignment;
Query OK, 1 row affected (1.21 sec)
```

Showing all the available databases:

Selection of the database:

Creating Table : Product

```
mysql> CREATE TABLE Product(product_id INT PRIMARY KEY,product_price DECIMAL(5,2),product_name VARCHAR(50));
Query OK, 0 rows affected (1.51 sec)
```

Inserting values into Product table:

```
mysql> INSERT INTO Product VALUES(101,50.00,"FirstProduct_Rishika");
Query OK, 1 row affected (0.11 sec)

mysql> INSERT INTO Product VALUES(102,60.00,"SecondProduct_Rishika");
Query OK, 1 row affected (0.18 sec)

mysql> INSERT INTO Product VALUES(103,70.00,"ThirdProduct_Rishika");
Query OK, 1 row affected (0.12 sec)

mysql> INSERT INTO Product VALUES(104,40.50,"FourthProduct_Rishika");
Query OK, 1 row affected (0.14 sec)

mysql> INSERT INTO Product VALUES(105,80.50,"FifthProduct_Rishika");
Query OK, 1 row affected (0.32 sec)
```

Showing the records of Product table:

```
mysql> SELECT * FROM Product;
+------------+---------------+------------------------+
| product_id | product_price | product_name           |
+------------+---------------+------------------------+
|        101 |         50.00 | FirstProduct_Rishika   |
|        102 |         60.00 | SecondProduct_Rishika  |
|        103 |         70.00 | ThirdProduct_Rishika   |
|        104 |         40.50 | FourthProduct_Rishika  |
|        105 |         80.50 | FifthProduct_Rishika   |
+------------+---------------+------------------------+
5 rows in set (0.00 sec)
```

Creating another table named as, Cart (contains two attributes product_id & quantity).

```
mysql> CREATE TABLE Cart(product_id INTEGER REFERENCES Product(product_id),quantity INTEGER);
Query OK, 0 rows affected (1.70 sec)
```

Note:

Creating another table named as Cart and assigning product_id as a foreign key for the Cart table.

Inserting values into Cart table:

```
mysql> INSERT INTO Cart VALUES (101,3),(102,2),(103,1),(104,0),(105,5);
Query OK, 5 rows affected (0.19 sec)
Records: 5  Duplicates: 0  Warnings: 0
```

Showing the records of the Cart table:

```
mysql> SELECT * FROM Cart;
+------------+----------+
| product_id | quantity |
+------------+----------+
|        101 |        3 |
|        102 |        2 |
|        103 |        1 |
|        104 |        0 |
|        105 |        5 |
+------------+----------+
5 rows in set (0.00 sec)
```

Calculating the total price to be paid at the time of checkout:

```
mysql> SELECT SUM(product_price * Cart.quantity) AS total_price FROM Product INNER JOIN Cart ON Product.product_id = Cart.product_id;
+-------------+
| total_price |
+-------------+
|      742.50 |
+-------------+
1 row in set (0.01 sec)
```

NOTE:
SELECT SUM(product_price * Cart.quantity) AS total_price FROM Product INNER JOIN Cart ON Product.product_id = Cart.product_id;

The total price to be paid at the checkout time is:

THANK YOU!