

Activity 2:

Single table queries

Create the “**product**” table, which we talked in the class (please refer to ch3).

Show all records of the products table:

Write your query here:

In [1]:

```
CREATE TABLE Product
(PName VARCHAR(255),
Price FLOAT,
Category VARCHAR (255),
Manufacturer VARCHAR (255));
```

```
INSERT INTO Product VALUES ('Gizmo', 19.99, 'Gadgets', 'GizmoWorks');
INSERT INTO Product VALUES ('Powergizmo', 29.99, 'Gadgets', 'GizmoWorks');
INSERT INTO Product VALUES ('SingleTouch', 149.99, 'Photography', 'Canon');
INSERT INTO Product VALUES ('MultiTouch ', 203.99, 'Household', 'Hitachi');
```

```
SELECT * FROM Product;
```

Show the output here:

Out [1]:

PName	Price	Category	Manufacturer
Gizmo	19.99	Gadgets	GizmoWorks
Powergizmo	29.99	Gadgets	GizmoWorks
SingleTouch	149.99	Photography	Canon
MultiTouch	203.99	Household	Hitachi

Exercise #1

Try writing a query to get an output table of all the products with "Touch" in the name, showing just their name and price, and sorted alphabetically by manufacturer.

Write your query here:

In [2]:

```
SELECT PName, Price FROM Product
WHERE PName LIKE '%Touch%'
ORDER BY Manufacturer;
```

Out [2]:

PName	Price
SingleTouch	149.99
MultiTouch	203.99

Next, write a query that returns the *distinct* names of manufacturers that make products with "Gizmo" in the name:

In [3]:

```
SELECT DISTINCT Manufacturer FROM Product
WHERE PName LIKE '%Gizmo%';
```

Out [3]:

Manufacturer
GizmoWorks

Exercise #2:

Try these queries but first guess what they return.

In [4]:

```
%sql SELECT DISTINCT category FROM product ORDER BY category;
```

Out [4]:

category
Gadgets
Household
Photography

In [5]:

```
%sql SELECT category FROM product ORDER BY pname;
```

Out[5]:

category
Gadgets
Household
Gadgets
Photography

In [6]:

```
%sql SELECT DISTINCT category FROM product ORDER BY pname;
```

Out [6]:

category
Gadgets
Household
Photography