

SQL

# Using Mathematical Operators

```
SELECT  pname, price* 2, manufacturer  
FROM    Product
```

```
SELECT  pname, price+ 2, manufacturer  
FROM    Product
```

# Using Comparison Operators

```
SELECT pname, price, manufacturer  
FROM Product  
WHERE category='gizmo'
```

```
SELECT pname, price, manufacturer  
FROM Product  
WHERE price > 50
```

# Using Logical Operators

```
SELECT pname, price, manufacturer  
FROM Product  
WHERE category='gizmo' AND price > 50
```

```
SELECT pname, price, manufacturer  
FROM Product  
WHERE category='gizmo' OR price > 50
```

# Ordering the Results

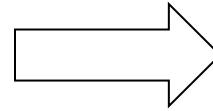
```
SELECT pname, price, manufacturer  
FROM Product  
WHERE category='gizmo' AND price > 50  
ORDER BY price, pname
```

Ties are broken by the second attribute on the ORDER BY list, etc.

Ordering is ascending, unless you specify the DESC keyword.

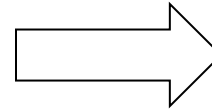
PName	Price	Category	Manufacturer
Gizmo	\$19.99	Gadgets	GizmoWorks
Powergizmo	\$29.99	Gadgets	GizmoWorks
SingleTouch	\$149.99	Photography	Canon
MultiTouch	\$203.99	Household	Hitachi

```
SELECT DISTINCT category
FROM Product
ORDER BY category
```



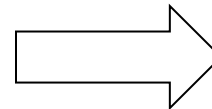
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```
SELECT Category
FROM Product
ORDER BY PName
```



?

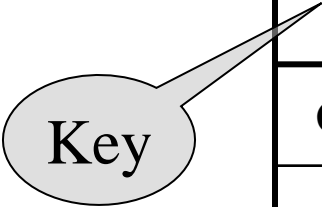
```
SELECT DISTINCT category
FROM Product
ORDER BY PName
```



?

# Keys and Foreign Keys

## Company



<u>CName</u>	StockPrice	Country
GizmoWorks	25	USA
Canon	65	Japan
Hitachi	15	Japan

## Product

<u>PName</u>	Price	Category	Manufacturer
Gizmo	\$19.99	Gadgets	GizmoWorks
Powergizmo	\$29.99	Gadgets	GizmoWorks
SingleTouch	\$149.99	Photography	Canon
MultiTouch	\$203.99	Household	Hitachi



Foreign  
key