

//Database Level

CREATE DATABASE order\_db\_mgmt;

DROP DATABASE order\_db\_mgmt;

CREATE DATABASE IF NOT EXISTS order\_db\_mgmt;

DROP DATABASE IF EXISTS order\_db\_mgmt;

CREATE DATABASE IF NOT EXISTS order\_db\_mgmt;

SHOW CREATE DATABASE order\_db\_mgmt \G

SHOW DATABASES;

Use order\_db\_mgmt;

SELECT DATABASE();

//Table level

SHOW TABLES;

CREATE TABLE IF NOT EXISTS customer (  
customerID INT UNSIGNED NOT NULL AUTO\_INCREMENT,  
customername CHAR(30) NOT NULL DEFAULT "",  
customeraddress VARCHAR(30) NOT NULL DEFAULT "",  
customermobno INT UNSIGNED NOT NULL,  
PRIMARY KEY (customerID)  
);

DESCRIBE customer;

SHOW CREATE TABLE customer;

SHOW CREATE TABLE customer \G

CREATE TABLE IF NOT EXISTS products (  
productID INT UNSIGNED NOT NULL AUTO\_INCREMENT primary  
key,  
productCode CHAR(3) NOT NULL DEFAULT "",  
name VARCHAR(30) NOT NULL DEFAULT "",

```
quantity INT UNSIGNED NOT NULL DEFAULT 0,  
price DECIMAL(7,2) NOT NULL DEFAULT 99999.99);
```

```
ALTER TABLE products ADD COLUMN supplierID INT UNSIGNED  
NOT NULL;
```

```
Desc products;
```

```
ALTER TABLE products DROP supplierID;
```

```
//Row Level
```

```
INSERT INTO products VALUES (1001, 'PEN', 'Pen Red', 5000, 1.23);
```

```
INSERT INTO products VALUES  
(NULL, 'PEN', 'Pen Blue', 8000, 1.25),  
(NULL, 'PEN', 'Pen Black', 2000, 1.25);
```

```
//null resulting auto-increment
```

```
INSERT INTO products (productCode, name, quantity, price) VALUES  
('PEC', 'Pencil 2B', 10000, 0.48),  
('PEC', 'Pencil 2H', 8000, 0.49);
```

```
INSERT INTO products (productCode, name) VALUES ('PEC', 'Pencil HB');
```

```
INSERT INTO products values (NULL, NULL, NULL, NULL, NULL);
```

```
INSERT INTO products SET productCode="PEC", name="Pencil HB";
```

```
Select * from products;
```

```
SELECT productid, name FROM products;
```

```
SELECT productid, name FROM products where productCode="PEC";
```

```
SELECT * FROM products where productCode="PEC";
```

```
SELECT 1+1;
```

```
Select now();
```

```
SELECT 1+1, NOW();
```

```
UPDATE products SET supplierID = 501;
```

```
UPDATE products SET price = price * 1.1;
```

```
SELECT * FROM products;
```

```
UPDATE products SET quantity = quantity - 100 WHERE name = 'Pen Red';
```

```
SELECT * FROM products WHERE name = 'Pen Red';
```

```
UPDATE products SET quantity = quantity + 50, price = 1.23 WHERE name  
= 'Pen Red';
```

```
SELECT * FROM products WHERE name = 'Pen Red';
```

```
DELETE FROM products WHERE productid=1007;
```

```
DELETE FROM products; //very careful before using
```

```
CREATE TABLE suppliers (  
supplierID INT UNSIGNED NOT NULL AUTO_INCREMENT,  
name VARCHAR(30) NOT NULL DEFAULT "",  
phone CHAR(8) NOT NULL DEFAULT "",  
PRIMARY KEY (supplierID)  
);
```

```
DESCRIBE suppliers;
```

```
INSERT INTO suppliers VALUE  
(501, 'ABC Traders', '88881111'),  
(502, 'XYZ Company', '88882222'),  
(503, 'QQ Corp', '88883333');
```

SELECT \* FROM suppliers;

ALTER TABLE products ADD FOREIGN KEY (supplierID)  
REFERENCES suppliers (supplierID);

### **//String Pattern Matching - LIKE and NOT LIKE**

SELECT name, price FROM products WHERE name LIKE 'PENCIL%';  
//beginneeing with

SELECT name, price FROM products WHERE name LIKE 'P\_\_ %';

SELECT \* FROM products WHERE quantity >= 5000 AND name LIKE  
'Pen %';

SELECT \* FROM products WHERE quantity >= 5000 AND price < 1.24  
AND name LIKE 'Pen %';

SELECT \* FROM products WHERE NOT (quantity >= 5000 AND name  
LIKE 'Pen %');

SELECT \* FROM products WHERE name IN ('Pen Red', 'Pen Black');

SELECT \* FROM products WHERE (price BETWEEN 1.0 AND 2.0) AND  
(quantity BETWEEN 1000 AND 2000);

SELECT \* FROM products WHERE productCode IS NULL;

SELECT \* FROM products ORDER BY price DESC;

SELECT \* FROM products WHERE name LIKE 'Pen %' ORDER BY price  
DESC, quantity;

SELECT \* FROM products ORDER BY price LIMIT 2;

```
SELECT CONCAT(productCode, ' - ', name) AS `Product Description`, price  
FROM products;
```