MySQL Queries

```
mysql> DROP DATABASE southwind;

mysql> CREATE DATABASE IF NOT EXISTS southwind;

mysql> DROP DATABASE IF EXISTS southwind;
```

SHOW CREATE DATABASE

```
mysql> SHOW CREATE DATABASE southwind \G
```

Setting the Default Database

```
mysql>USE southwind;
```

Creating and Deleting a Table

```
-- Show the current (default) database
mysql> SELECT DATABASE();

-- Show all the tables in the current database.
mysql> SHOW TABLES;

-- Create the table "products".
mysql> CREATE TABLE IF NOT EXISTS products (
       productID    INT UNSIGNED  NOT NULL AUTO_INCREMENT,
       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,
       PRIMARY KEY  (productID)
     );

-- Show all the tables to confirm that the "products" table has been created
mysql> SHOW TABLES;

-- Describe the fields (columns) of the "products" table
mysql> DESCRIBE products;

-- Show the complete CREATE TABLE statement used by MySQL to create this table
```

```
mysql> SHOW CREATE TABLE products \G
```

Inserting Rows

```
-- Insert a row with all the column values
mysql> INSERT INTO products VALUES (1001, 'PEN', 'Pen Red', 5000, 1.23);

-- Insert multiple rows in one command
-- Inserting NULL to the auto_increment column results in max_value + 1
mysql> INSERT INTO products VALUES
       (NULL, 'PEN', 'Pen Blue',  8000, 1.25),
       (NULL, 'PEN', 'Pen Black', 2000, 1.25);

-- Insert value to selected columns
-- Missing value for the auto_increment column also results in max_value + 1
mysql> INSERT INTO products (productCode, name, quantity, price) VALUES
       ('PEC', 'Pencil 2B', 10000, 0.48),
       ('PEC', 'Pencil 2H', 8000, 0.49);

-- Missing columns get their default values
mysql> INSERT INTO products (productCode, name) VALUES ('PEC', 'Pencil HB');

-- 2nd column (productCode) is defined to be NOT NULL
mysql> INSERT INTO products values (NULL, NULL, NULL, NULL, NULL);

--show table
mysql> SELECT * FROM products;

-- Remove the specific row
mysql> DELETE FROM products WHERE productID = 1006;

-- List all rows for the specified columns
mysql> SELECT name, price FROM products;
```

SELECT without Table

You can also issue SELECT without a table. For example, you can SELECT an expression or evaluate a built-in function.