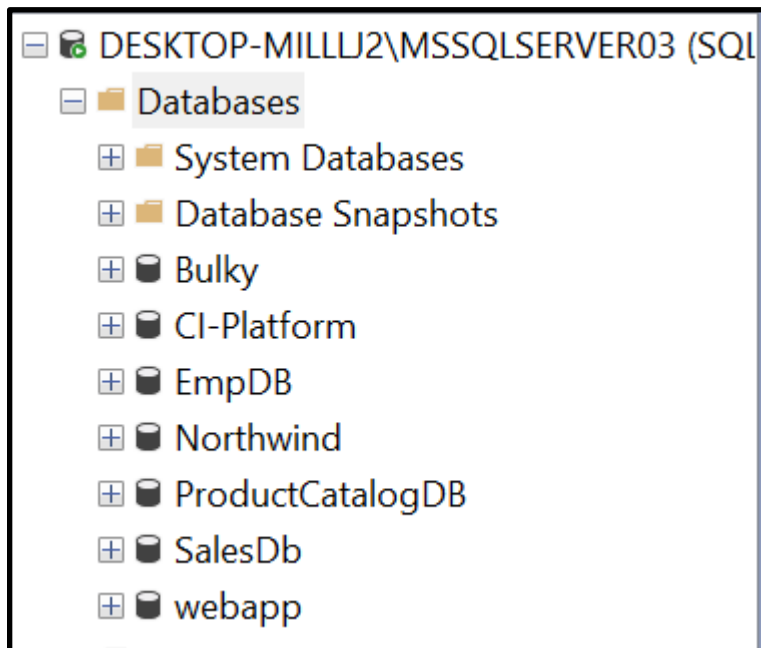# SQL Basic Command Practical

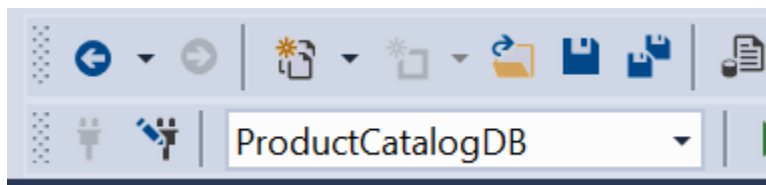**Step:1 Create the Database in SSMS.**

```
--Create the database
CREATE DATABASE ProductCatalogDB;
```

```
DESKTOP-MILLLJ2\MSSQLSERVER03 (SQL
  Databases
    System Databases
    Database Snapshots
    Bulky
    CI-Platform
    EmpDB
    Northwind
    ProductCatalogDB
    SalesDb
    webapp
```

Step 2: Use the ProductCatalogDB

```
--Use the ProductCatalogDB Database
USE ProductCatalogDB;
```

ProductCatalogDB

Step 3: Create the Table named as Product

```
--Create the table named Product in the ProductCatalogDB
Create Table Product(
ProductId INT IDENTITY(1,1) PRIMARY KEY NOT NULL,
ProductName VARCHAR(500) NOT NULL,
Category VARCHAR(100) NOT NULL,
Price DECIMAL(10,2) Check(Price>=0)
);
```

- ▣ ■ ProductCatalogDB
  - ⊞ ■ Database Diagrams
  - ⊟ ■ Tables
    - ⊞ ■ System Tables
    - ⊞ ■ FileTables
    - ⊞ ■ External Tables
    - ⊞ ■ Graph Tables
    - ⊞ ▦ dbo.Product
    - ⊞ ■ Dropped Ledger Tables

▦ Results ▥ Messages

ProductId	ProductName	Category	Price

Step 4 : Add the column named as Description

```
--Adding one more column named as description
ALTER table Product
ADD Description VARCHAR(500);
```

▦ Results ▥ Messages

ProductId	ProductName	Category	Price	Description

Step 5: Add 10 records in the above Product table

```sql
--Add 10 records in the above Product table
INSERT INTO Product (ProductName, Category, Price, Description)
VALUES
('Multivitamin Tablets', 'Health', 1200.00, 'Daily essential vitamins'),
('Whey Protein', 'Health', 3500.00, 'Protein supplement'),
('Yoga Mat', 'Fitness', 800.00, 'Non-slip mat'),
('Treadmill', 'Fitness', 25000.00, 'Motorized treadmill for home use'),
('LED TV 55 inch', 'Electronics', 45000.00, 'Smart LED TV'),
('Smartphone X', 'Electronics', 30000.00, 'Latest model smartphone'),
('Office Chair', 'Furniture', 7000.00, 'Ergonomic chair with support'),
('Laptop Stand', 'Furniture', 1200.00, 'Adjustable stand'),
('Air Purifier', 'Home Appliances', 15000.00, 'HEPA filter purifier'),
('Electric Kettle', 'Home Appliances', 1800.00, '1.5L fast boil kettle');
```

⊞ Results ▭ Messages

	ProductId	ProductName	Category	Price	Description
1	1	Multivitamin Tablets	Health	1200.00	Daily essential vitamins
2	2	Whey Protein	Health	3500.00	Protein supplement
3	3	Yoga Mat	Fitness	800.00	Non-slip mat
4	4	Treadmill	Fitness	25000.00	Motorized treadmill for home use
5	5	LED TV 55 inch	Electronics	45000.00	Smart LED TV
6	6	Smartphone X	Electronics	30000.00	Latest model smartphone
7	7	Office Chair	Furniture	7000.00	Ergonomic chair with support
8	8	Laptop Stand	Furniture	1200.00	Adjustable stand
9	9	Air Purifier	Home Appliances	15000.00	HEPA filter purifier
10	10	Electric Kettle	Home Appliances	1800.00	1.5L fast boil kettle

Step 6: Query to list all the products from the Health category

```sql
--Query to list all the product belonging to the Health category
Select * from Product Where Category='Health';
```

⊞ Results ▭ Messages

	ProductId	ProductName	Category	Price	Description
1	1	Multivitamin Tablets	Health	1200.00	Daily essential vitamins
2	2	Whey Protein	Health	3500.00	Protein supplement

Step 7: Query to get the total price of all products

```
--Query to get the total price of all products
Select Sum(Price) as TotalPrice from Product;
```

	TotalPrice
1	130500.00

Step 8: Query to display product in descending order of price

```
--Query to display product in descending order of price
Select * from Product Order by Price DESC;
```

	ProductId	ProductName	Category	Price	Description
1	5	LED TV 55 inch	Electronics	45000.00	Smart LED TV
2	6	Smartphone X	Electronics	30000.00	Latest model smartphone
3	4	Treadmill	Fitness	25000.00	Motorized treadmill for home use
4	9	Air Purifier	Home Appliances	15000.00	HEPA filter purifier
5	7	Office Chair	Furniture	7000.00	Ergonomic chair with support
6	2	Whey Protein	Health	3500.00	Protein supplement
7	10	Electric Kettle	Home Appliances	1800.00	1.5L fast boil kettle
8	1	Multivitamin Tablets	Health	1200.00	Daily essential vitamins
9	8	Laptop Stand	Furniture	1200.00	Adjustable stand
10	3	Yoga Mat	Fitness	800.00	Non-slip mat

Step: 9 Query to display category wise product count having price greater than 10000

```sql
--Query to display category wise product count having price greater than  10000
Select Category,COUNT(*) AS ProductCount
FROM Product
WHERE Price>10000
GROUP BY Category;
```

⊞ Results ᴇ Messages

	Category	ProductCount
1	Electronics	2
2	Fitness	1
3	Home Appliances	1