

Open Ms SQL Server Management Studio program and use Northwind sample database for practices. Login information is given below:

**Db Server Name :**

**Authentication :** SQL Server Authentication

**Login :**

**Password :**

- 1) Click **New Query** button or press **Ctrl+N**.
- 2) Use **Northwnd** database.

To create a new table, use statement below:

```
CREATE TABLE <TableName>
(
    FieldName1    DataType    <NOT NULL>,
    FieldName2    DataType    <NOT NULL>,
    ...
    FieldNameN    DataType    <NOT NULL>,
    PRIMARY KEY (FieldName),
    FOREIGN KEY (FieldName) REFERENCES RelatedTable(FieldName)
);
```

- 3) Create a new table named as **TEST**. In naming, add last two number of your studentID to end of table name. For example, if the last two number of your studentID is 03, write **TEST03**.

New table will have this fields:

TestID	varchar(3)	not null	it is a primary key (PK)
TestName	varchar(15)		

- 4) Create another new table named as **TESTLAB**. In naming, add last two number of your studentID to end of table name. For example, if the last two number of your studentID is 03, write **TESTLAB03**.

New table will have this fields:

TestLabID	varchar(3)	not null	it is a PK
TestID	varchar(3)	not null	it is a foreign key (FK)
TestDate	date		
TestValue	dec(5,2)		

To add new field to a table, use statement below:

```
ALTER TABLE <TableName>
ADD <FieldName> <DataType>;
```

- 5) Add a new field named as **TestOK** (binary) to your **TESTLAB** table.

To update a field in a table, use statement below:

```
ALTER TABLE <TableName>
ALTER COLUMN <FieldName> <DataType>;
```

- 6) Change data type of **TestDate** field as **datetime** in your **TESTLAB** table.

To delete a table entirely, use statement below:

```
DROP TABLE <TableName>
```

- 7) Delete your **TESTLAB** and **TEST** tables from SQL

To get data in a table or tables, use select-from-where statement as below:

```
SELECT <Fields>  
  
FROM <Table List>  
  
WHERE <Conditions>;
```

- 8) Write an SQL query to list first name and last name of employees that have the title of 'Dr.'.
- 9) Write an SQL query to list first name, last name, city and title of employees that live in 'London' and have the title of 'Mr.'.
- 10) Write an SQL query to list product name and quantity in stock of products that's quantity in stock is less than 100.
- 11) Write an SQL query to list product name of products that is discontinued.
- 12) Write an SQL query to list first name and last name of employees that have born before 17/01/1950.
- 13) Write an SQL query to list product name and category **name** of products.
- 14) Write an SQL query to list order ID of orders that are processed by employee "Andrew Fuller".
- 15) Write an SQL query to list customer's company name and order date of orders that are shipped to "Graz" city.
- 16) Write an SQL query to list product name of products that are ordered more than 50 (quantity).
- 17) Write an SQL query to list order ID of orders that are shipped via Federal Shipping.
- 18) Write an SQL query to list product name of orders that are shipped via Federal Shipping.
- 19) Write an SQL query to list first name and last name of employees that is have territory 'Seattle'.
- 20) **A Gold Query Problem:** Write an SQL query to list first/last name of employees and the related first/last name of managers. (*Hint: Use ReportsTo field in Employees table, and use alias for related tables in query*)