Group 3 Team Members

Martin Chamambo

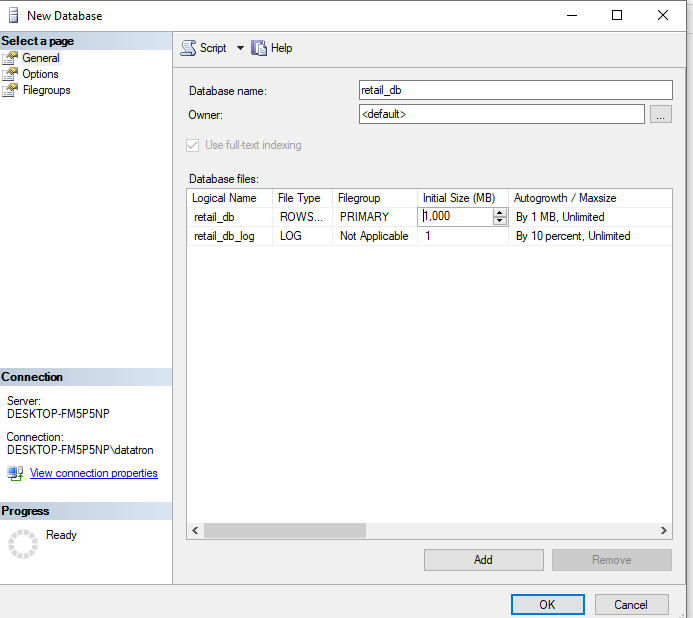
Takunda Muchemwa

Gift chigayo

Netsai

Alex

1. **Create a database namely retail\_db in SQL Server [2 MARKS]**



1. **Create the required tables and show the queries that you have used [12 MARKS] - We have also attached the SQL file for this question**

IF EXISTS (SELECT \* FROM sysobjects WHERE id = object\_id(N'[dbo].[categories]')

AND OBJECTPROPERTY(id, N'IsUserTable') = 1)

DROP TABLE [dbo].[categories];

CREATE TABLE categories (

[category\_id] int NOT NULL IDENTITY,

[category\_department\_id] int NOT NULL,

[category\_name] varchar(45) NOT NULL,

PRIMARY KEY ([category\_id])

) ;

IF EXISTS (SELECT \* FROM sysobjects WHERE id = object\_id(N'[dbo].[customers]')

AND OBJECTPROPERTY(id, N'IsUserTable') = 1)

DROP TABLE [dbo].[customers];

CREATE TABLE customers (

[customer\_id] int NOT NULL IDENTITY,

[customer\_fname] varchar(45) NOT NULL,

[customer\_lname] varchar(45) NOT NULL,

[customer\_email] varchar(45) NOT NULL,

[customer\_password] varchar(45) NOT NULL,

[customer\_street] varchar(255) NOT NULL,

[customer\_city] varchar(45) NOT NULL,

[customer\_state] varchar(45) NOT NULL,

[customer\_zipcode] varchar(45) NOT NULL,

PRIMARY KEY ([customer\_id])

) ;

IF EXISTS (SELECT \* FROM sysobjects WHERE id = object\_id(N'[dbo].[departments]')

AND OBJECTPROPERTY(id, N'IsUserTable') = 1)

DROP TABLE [dbo].[departments];

CREATE TABLE departments (

[department\_id] int NOT NULL IDENTITY,

[department\_name] varchar(45) NOT NULL,

PRIMARY KEY ([department\_id])

) ;

IF EXISTS (SELECT \* FROM sysobjects WHERE id = object\_id(N'[dbo].[order\_items]')

AND OBJECTPROPERTY(id, N'IsUserTable') = 1)

DROP TABLE [dbo].[order\_items];

CREATE TABLE order\_items (

[order\_item\_id] int NOT NULL IDENTITY,

[order\_item\_order\_id] int NOT NULL,

[order\_item\_product\_id] int NOT NULL,

[order\_item\_quantity] smallint NOT NULL,

[order\_item\_subtotal] float NOT NULL,

[order\_item\_product\_price] float NOT NULL,

PRIMARY KEY ([order\_item\_id])

) ;

IF EXISTS (SELECT \* FROM sysobjects WHERE id = object\_id(N'[dbo].[orders]')

AND OBJECTPROPERTY(id, N'IsUserTable') = 1)

DROP TABLE [dbo].[orders];

CREATE TABLE orders (

[order\_id] int NOT NULL IDENTITY,

[order\_date] datetime2(0) NOT NULL,

[order\_customer\_id] int NOT NULL,

[order\_status] varchar(45) NOT NULL,

PRIMARY KEY ([order\_id])

) ;

IF EXISTS (SELECT \* FROM sysobjects WHERE id = object\_id(N'[dbo].[products]')

AND OBJECTPROPERTY(id, N'IsUserTable') = 1)

DROP TABLE [dbo].[products];

CREATE TABLE products (

[product\_id] int NOT NULL IDENTITY,

[product\_category\_id] int NOT NULL,

[product\_name] varchar(45) NOT NULL,

[product\_description] varchar(255) NOT NULL,

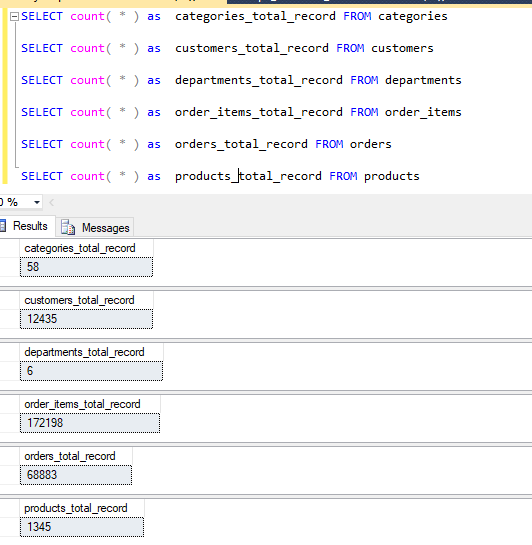
[product\_price] float NOT NULL,

[product\_image] varchar(255) NOT NULL,

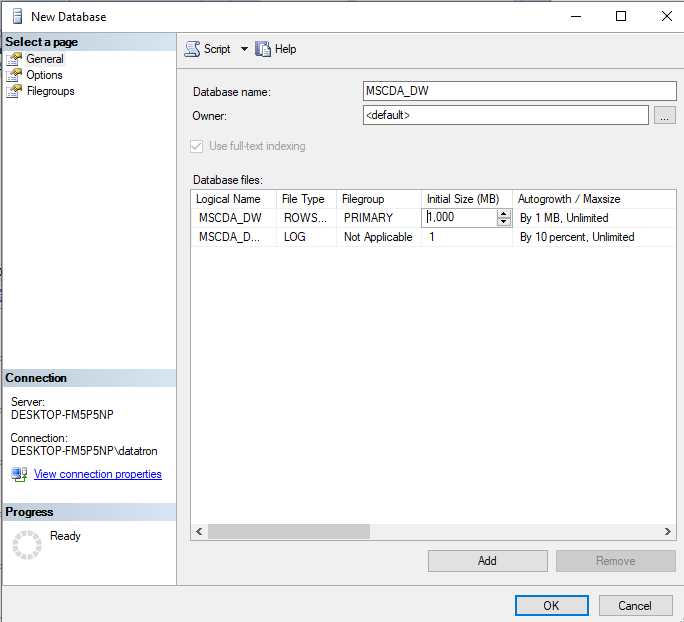
PRIMARY KEY ([product\_id])

) ;

1. **Load the data into the tables you just created [50 MARKS] - We used python to insert the data into the retail\_db database and have attached the python file named LoadDataIntoTables\_Group3.py**
2. **Write queries to show the total number of records in each table and take screenshots together with the results. [6 MARKS]**



1. **Create another database called MSCDA\_DW which will be your data warehouse**



1. **During your logical data modelling phase, model a star schema which will be part of your data warehouse showing the source tables and suggested names for your facts and dimensions [5 MARKS]**
2. **Zxxz**
3. **Ssda**
4. **Sdsd**
5. **sdfs**