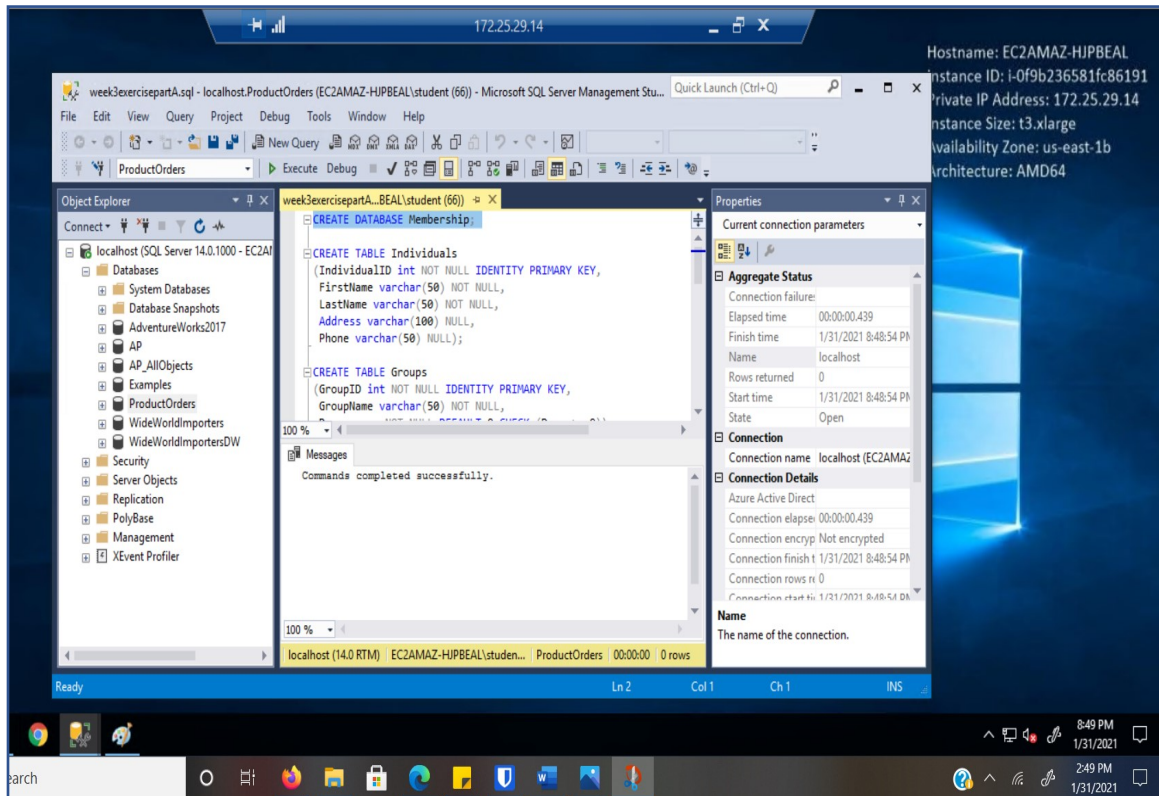
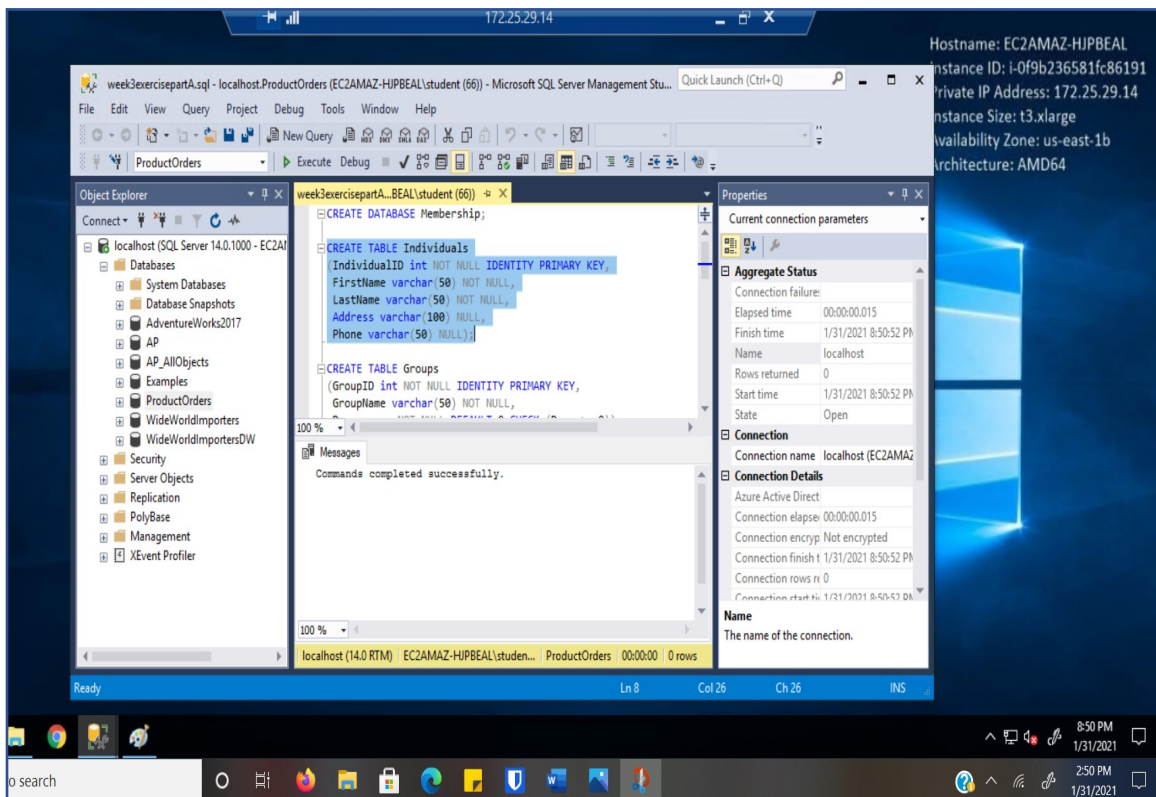


Ex. 1)



Ex 2.)



Ex 5.)

The screenshot displays the Microsoft SQL Server Enterprise Manager interface. The main window shows a query executed successfully, with the following SQL commands:

```
CREATE CLUSTERED INDEX IX_GroupMembership_GroupID
ON GroupMembership(GroupID);
CREATE INDEX IX_GroupMembership_IndividualID
ON GroupMembership(IndividualID);
ALTER TABLE Individuals
ADD DuesPaid bit NOT NULL DEFAULT 0;
ALTER TABLE Invoices
ADD CHECK ((PaymentDate IS NULL AND PaymentTotal = 0) OR
(PaymentDate IS NOT NULL AND PaymentTotal > 0));
CHECK ((PaymentTotal + CreditTotal) <= InvoiceTotal);
DROP TABLE GroupMembership;
```

The status bar at the bottom indicates "Query executed successfully." and "localhost (14.0 RTM) EC2AMAZ-HIPBEAL\student... AP 00:00:00 0 rows".

The Properties window on the right shows the connection details for "localhost [EC2AMAZ-HIPBEAL]student (54)". The connection name is "localhost [EC2AMAZ-HIPBEAL]student (54)". The connection details include:

- Connection name: localhost [EC2AMAZ-HIPBEAL]student (54)
- Connection details: Azure Active Direct, Connection elapsed: 00:00:00.031, Connection encrypt: Not encrypted, Connection finish t: 1/31/2021 9:19:30 PM, Connection rows r: 0, Connection start t: 1/31/2021 9:19:30 PM, Connection state: Open, Display name: localhost, Login name: EC2AMAZ-HIPBEAL, Password: [REDACTED]
- Name: The name of the connection.

PART B

Ex 1.)

The screenshot shows the SQL Server Enterprise Manager interface. The Object Explorer on the left shows the 'localhost (SQL Server 14.0.1000 - EC2AMAZ-HIPBEAL-student (64))' server. The central pane displays the SQL script for creating a database and tables:

```
CREATE DATABASE Membership2;

CREATE TABLE Individuals
(IndividualID int NOT NULL IDENTITY PRIMARY KEY,
 FirstName varchar(50) NOT NULL,
 LastName varchar(50) NOT NULL,
 Address varchar(100) NULL,
 Phone varchar(50) NULL);

CREATE TABLE Groups
(GroupID int NOT NULL IDENTITY PRIMARY KEY,
 GroupName varchar(50) NOT NULL,
 Dues money NOT NULL DEFAULT 0 CHECK (Dues >= 0));

CREATE TABLE GroupMembership
(GroupID int REFERENCES Groups(GroupID),
 IndividualID int REFERENCES Individuals(IndividualID));

CREATE CLUSTERED INDEX IX_GroupMembership_GroupID
ON GroupMembership(GroupID);

CREATE INDEX IX_GroupMembership_IndividualID
ON GroupMembership(IndividualID);
```

The Properties pane on the right shows the 'Current connection parameters' for the 'localhost (EC2AMAZ-HIPBEAL-student (64))' connection. The 'Aggregate Status' section shows 'Connection failure: Elapsed time', 'Finish time', 'Name: localhost', 'Rows returned: 0', 'Start time', 'State: Open'. The 'Connection' section shows 'Connection name: localhost (EC2AMAZ-HIPBEAL-student (64))'. The 'Connection Details' section shows 'Azure Active Direct', 'Connection elapsed', 'Connection encrypt: Not encrypted', 'Connection finish t', 'Connection rows r: 0', 'Connection start ti', 'Connection state: Open', 'Display name: localhost', 'Login name: EC2AMAZ-HIPBEAL-student (64)', 'Password: localhost'. The 'Name' section shows 'The name of the connection.'

Ex 2.)

The screenshot shows the SQL Server Enterprise Manager interface. The Object Explorer on the left shows the 'localhost (SQL Server 14.0.1000 - EC2AMAZ-HIPBEAL-student (64))' server. The central pane displays the 'dbo.Individuals' table design. The table has the following columns:

Column Name	Data Type	Allow Nulls
IndividualID	int	<input type="checkbox"/>
FirstName	varchar(50)	<input type="checkbox"/>
LastName	varchar(50)	<input type="checkbox"/>
Address	varchar(100)	<input checked="" type="checkbox"/>
Phone	varchar(50)	<input checked="" type="checkbox"/>

The 'Column Properties' pane shows the 'IndividualID' column properties: (Name) IndividualID, Allow Nulls No, Data Type int, Default Value or Binding. The 'Table Designer' pane shows the 'IndividualID' column as the 'Identity Column' with 'Indexable: Yes', 'Lock Escalation: Table', 'Regular Data Spec: PRIMARY', 'Replicated: No', 'Row GUID Column', and 'Text/Image Filegroup: PRIMARY'. The 'Properties' pane on the right shows the 'dbo.Individuals' table properties: (Name) Individuals, Database Name Membership2, Description, Schema dbo, Server Name ec2amaz-hipbeal-student (64), Identity Column IndividualID, Indexable Yes, Lock Escalation Table, Regular Data Spec PRIMARY, Replicated No, Row GUID Column, Text/Image Filegroup PRIMARY.

Ex. 3)

