AIST 3410- Database Management System

Description:

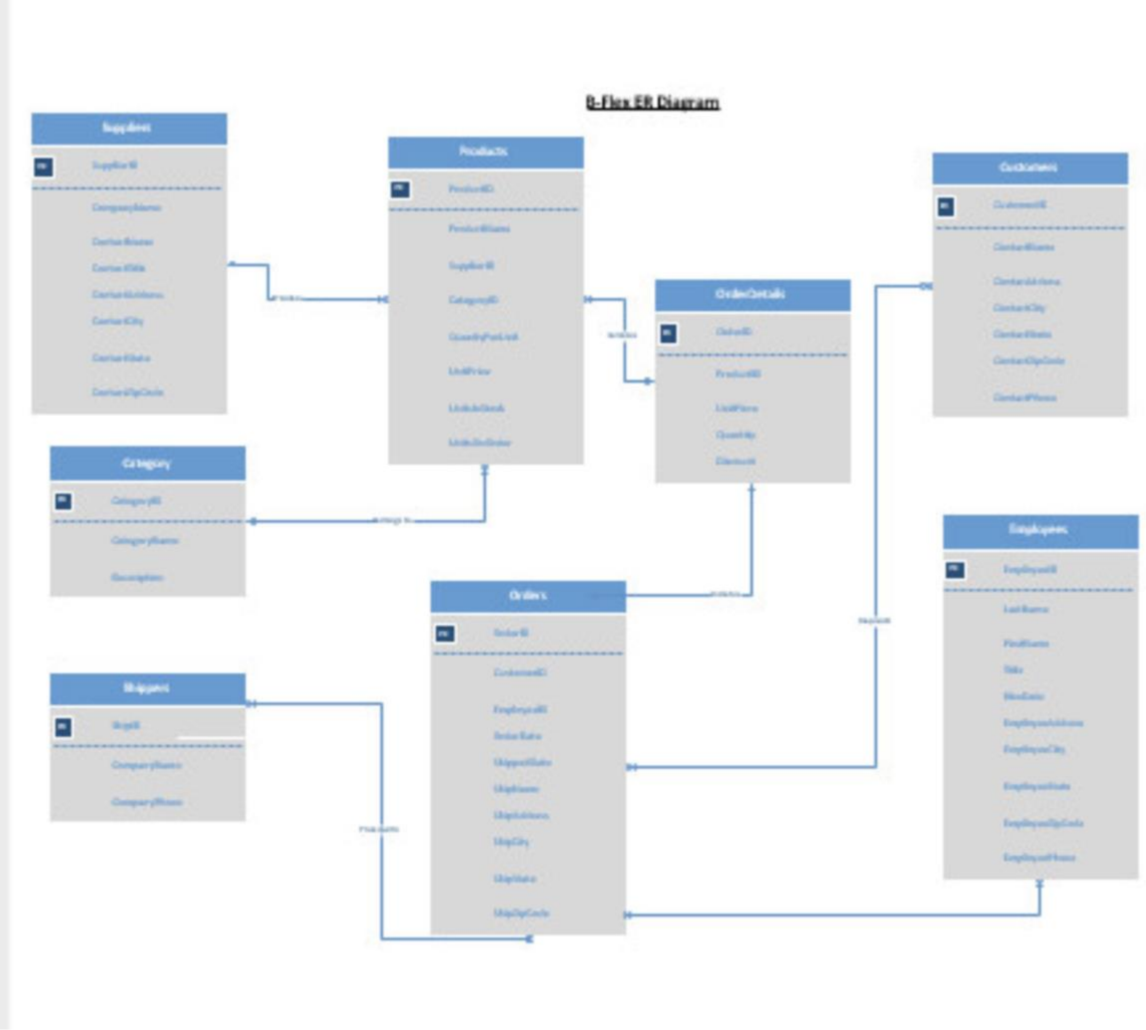
For our project, we selected a locally owned company known as B-Flex. The company was born in Italy more than a decade ago, and has continued to grow exponentially over the past few years. So much, that they decide to globalize and bring their products to the United States. The company is known for the sale of 'wholesale heat vinyl transfer' and swear by their products.

Although B-Flex Italia has been established for quite some time, B-Flex United States has only been active in our market for a little over a year. The company is still starting and lacks a strong connection between its data. Information is hard to access, therefore making it difficult to retrieve, manipulate, and produce information. The company's current file system lacks the ability to manage large amounts of data, accuracy, security, and easy to reach/update data.

The purpose of our newly designed database is to enhance the company's ability to not only store their large amounts of data, but also help to efficiently handle that data in a faster manner while performing multiple tasks with ease. The database will also help to reduce or even avoid altogether data redundancy. Our goal for this project is to provide this semi 'start-up' company with a more reliable way to share and communicate their data among themselves while ensuring accuracy and consistency in the database.

The database will include: Customers requesting orders, products in stock, and employees handling orders. There will also be tables categorizing products as well as tables organizing shipping companies. Our goal for this project is to provide this semi 'start-up' company with a more reliable way to share and communicate their data among themselves while ensuring accuracy and consistency in the database.

E-R Diagram (Conceptual Data Model)



The image from the screenshot made the picture very blurry. The ER model can be found saved on Devin's virtual machine on the Desktop

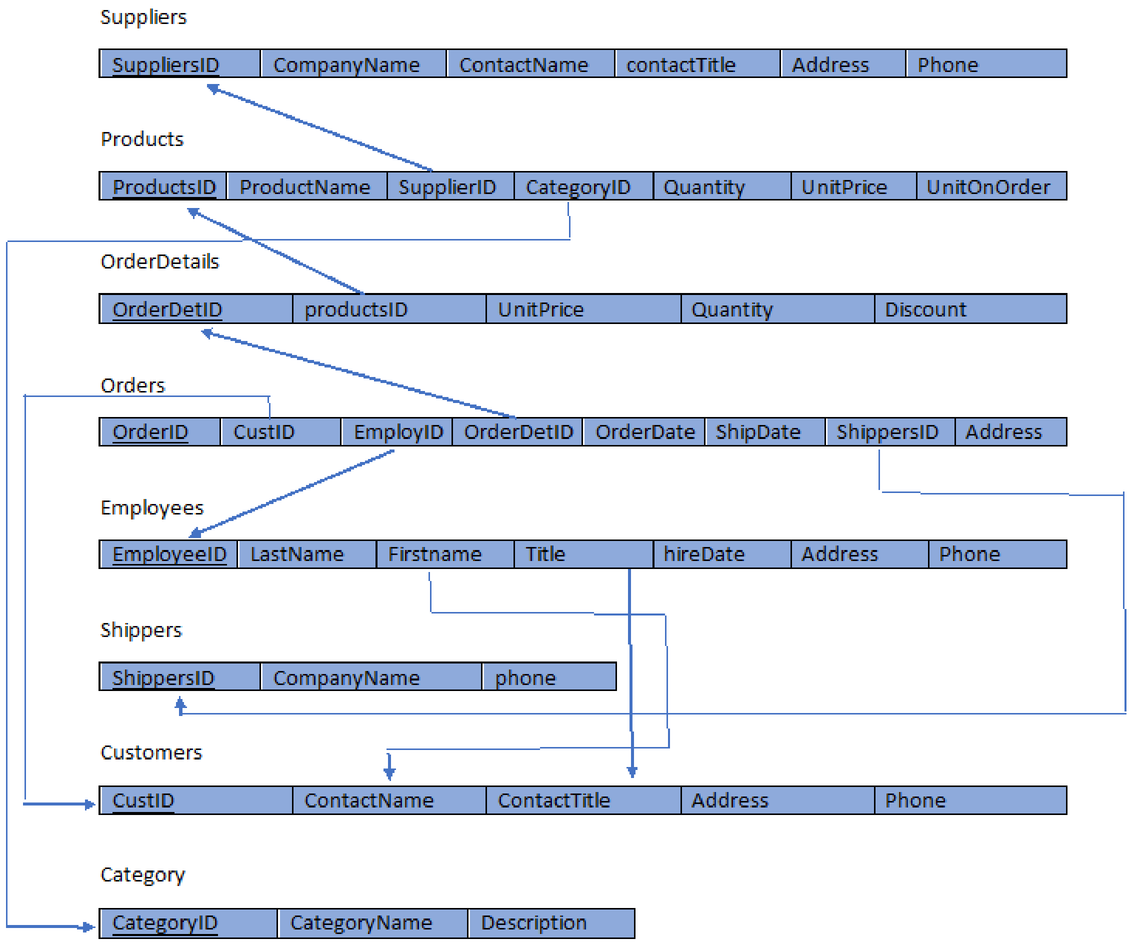
ER Diagram Explanation:

The ER model is designed to show the relationship between the entities within the company, B-Flex. The entities we chose to use for our design include; Customers, Employees, Orders, OrderDetails, Products, Categories, Suppliers and Shippers. There is a total of 8 tables. The primary key for all entities consists of a unique ID. For example, the entity Customers has a primary key of CustomerID, the entity Products has the primary key ProductsID, and so on and so forth. The attributes for each table are the properties which are used to define the entity type. Each entity has a minimum of 3 attributes.

As mentioned previously, the entity Customers has a primary key, CustomerID, along with the attributes: CompanyName, ContactName, ContactAddress, ContactCity, and ContactPhone. The entity Employees has a primary key, EmployeeID, along with the attributes: LastName, FirstName, Title, HireDate, EmployeeAddress, EmployeeCity, EmployeeState, EmployeeZipCode and EmployeePhone. The entity Orders has the primary key, OrderID, along with the foreign keys CustomerID and EmployeeID. The other attributes in the Order table aside from the primary and foreign keys include; OrderDate, ShippedDate, ShipName, ShipAddress, ShipCity, ShipState and ShipZipCode. The entity OrderDetails uses the OrderID from the Orders table and the ProductID from the Products table as foreign keys. Because the table uses only foreign keys for identification, the table is considered a weak entity.

Lastly, are the remaining entities, Products, Category, Suppliers and Shippers. The entity Products has a primary key, ProductID, and two foreign keys, SupplierID and CategoryID. The remaining attributes in Products are ProductName, QuanityPerUnit, UnitPrice and UnitsOnOrder. The entity Suppliers has a primary key, SupplierID, along with attributes; CompanyName, ContactName, ContactTitle, ContactAddress, ContactCity, ContactState, ContactZipCode, ContactPhone. The entitities Category and Shippers have the least number of attributes. Products has a primary key, CategoryID, and the attributes CompanyName and description. Shippers has a primary key, ShipperID, and the attributes CompanyName and CompanyPhone.

Relational Model (Logical Data Model)



Suppliers

SuppliersID	CompanyName	ContactName	contactTitle	Address	Phone

Products

ProductsID	ProductName	SupplierID	CategoryID	Quantity	UnitPrice	UnitOnOrder

OrderDetails

OrderDetID	productsID	UnitPrice	Quantity	Discount

Orders

OrderID	CustID	EmployID	OrderDetID	OrderDate	ShipDate	ShippersID	Address

Employees

EmployeeID	LastName	Firstname	Title	hireDate	Address	Phone

Shippers

ShippersID	CompanyName	phone

Customers

CustID	ContactName	ContactTitle	Address	Phone

Category

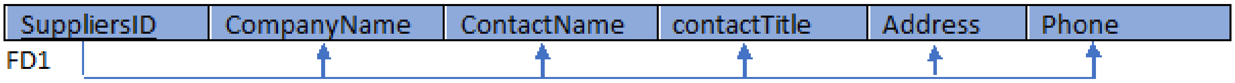
CategoryID	CategoryName	Description

Relational Model Explanation:

The relational model represents to database as a collection of relations (tables). It is just the table with the associated values. Each row represents a collection of related data values. Each relation has a header, our headers are the same columns used in the ER model and in our database. The body is the set of data that populates the relation, organized into rows. We followed the rules of primary and foreign keys.

Normalization

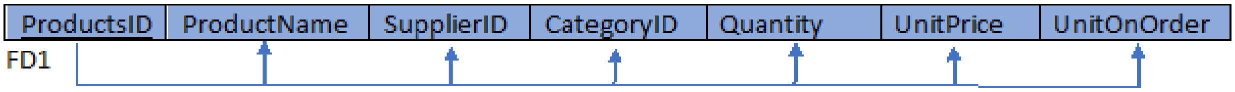
Suppliers



SuppliersID	CompanyName	ContactName	contactTitle	Address	Phone

FD1

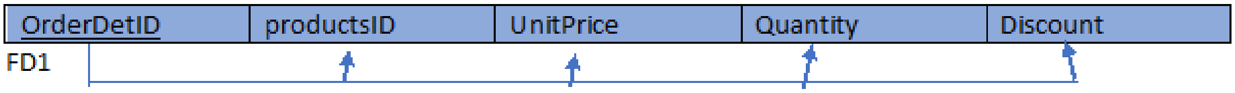
Products



ProductsID	ProductName	SupplierID	CategoryID	Quantity	UnitPrice	UnitOnOrder

FD1

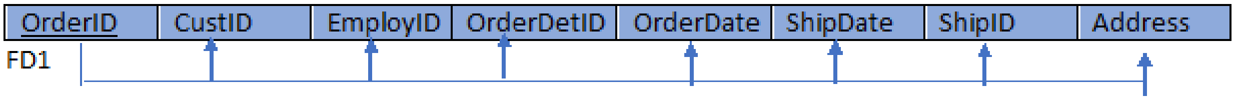
OrderDetails



OrderDetID	productsID	UnitPrice	Quantity	Discount

FD1

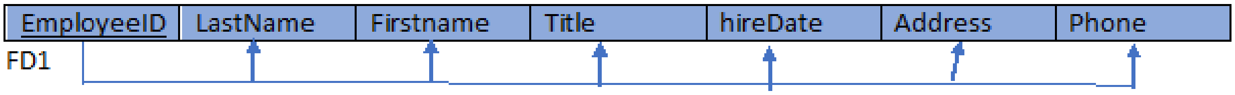
Orders



OrderID	CustID	EmployID	OrderDetID	OrderDate	ShipDate	ShipID	Address

FD1

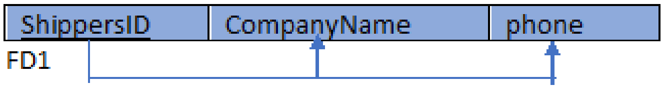
Employees



EmployeeID	LastName	Firstname	Title	hireDate	Address	Phone

FD1

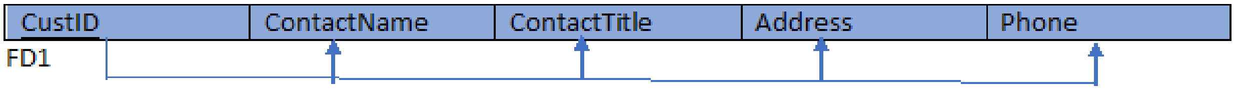
Shippers



ShippersID	CompanyName	phone

FD1

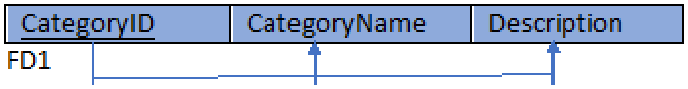
Customers



CustID	ContactName	ContactTitle	Address	Phone

FD1

Category

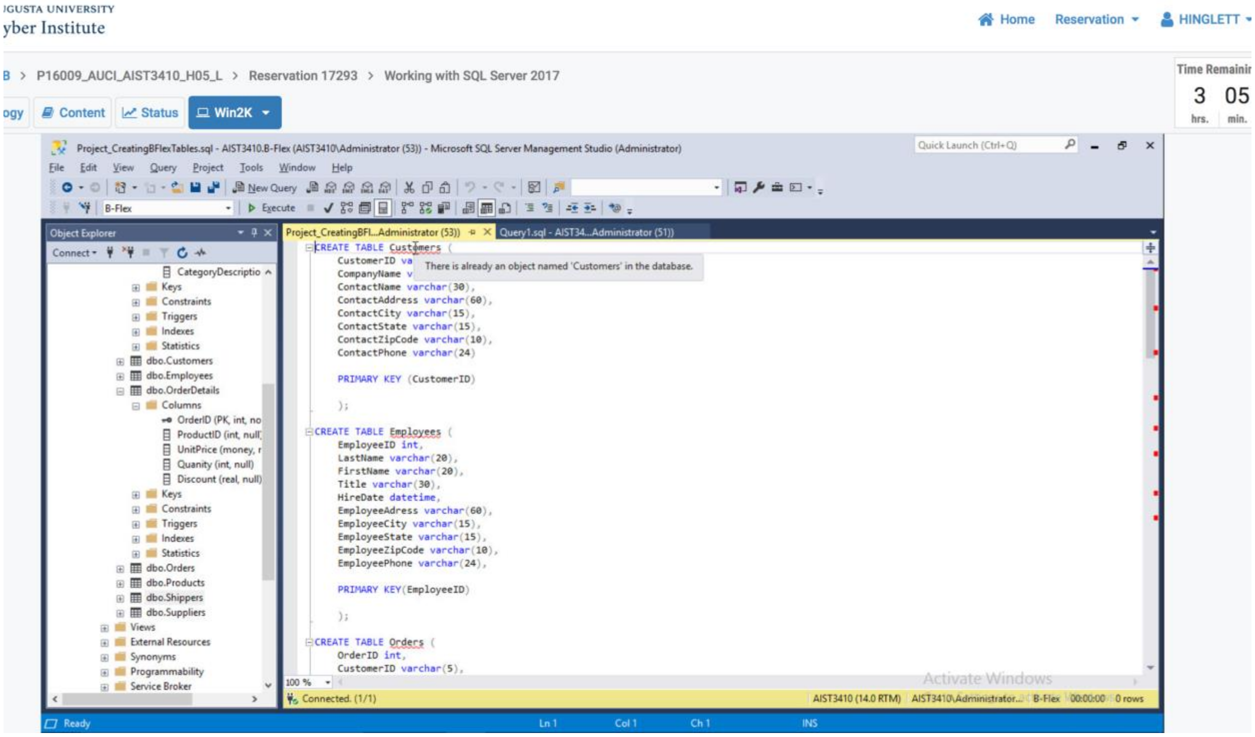


CategoryID	CategoryName	Description

FD1

Database in SQL Server

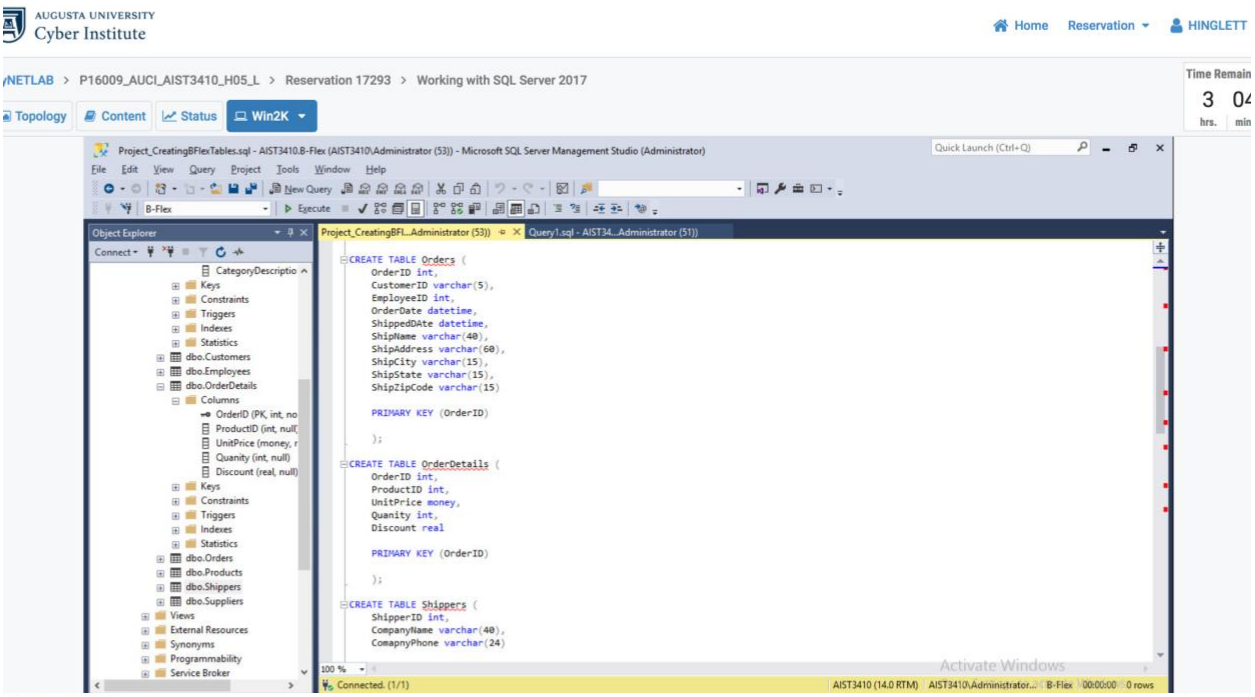
Step 1.) To create the database inside the SQL server, we left clicked on 'Databases' inside of the Object Explorer. Here, we named our new database 'B-Flex'. Inside of a new query is where we began by creating each table from the relational model. These saved queries can be found in Haley's virtual machine saved inside the folder 'Final'.



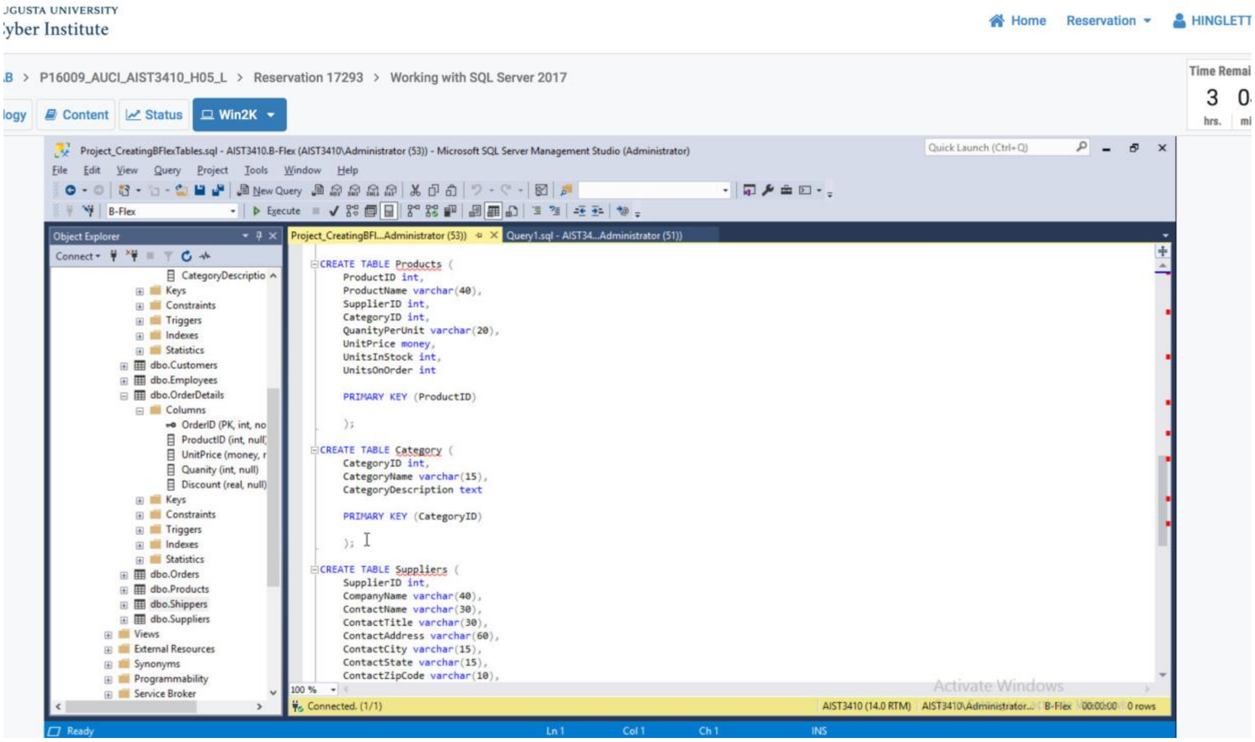
```
CREATE TABLE Customers (
    CustomerID va
    CompanyName v
    ContactName varchar(30),
    ContactAddress varchar(60),
    ContactCity varchar(15),
    ContactState varchar(15),
    ContactZipCode varchar(10),
    ContactPhone varchar(24)

    PRIMARY KEY (CustomerID)

    );

CREATE TABLE Employees (
    EmployeeID int,
    LastName varchar(20),
    FirstName varchar(20),
    Title varchar(30),
    HireDate datetime,
    EmployeeAdress varchar(60),
    EmployeeCity varchar(15),
    EmployeeState varchar(15),
    EmployeeZipCode varchar(10),
    EmployeePhone varchar(24),

    PRIMARY KEY(EmployeeID)

    );

CREATE TABLE Orders (
    OrderID int,
    CustomerID varchar(5),
```

There is already an object named 'Customers' in the database.

Connected. (1/1)

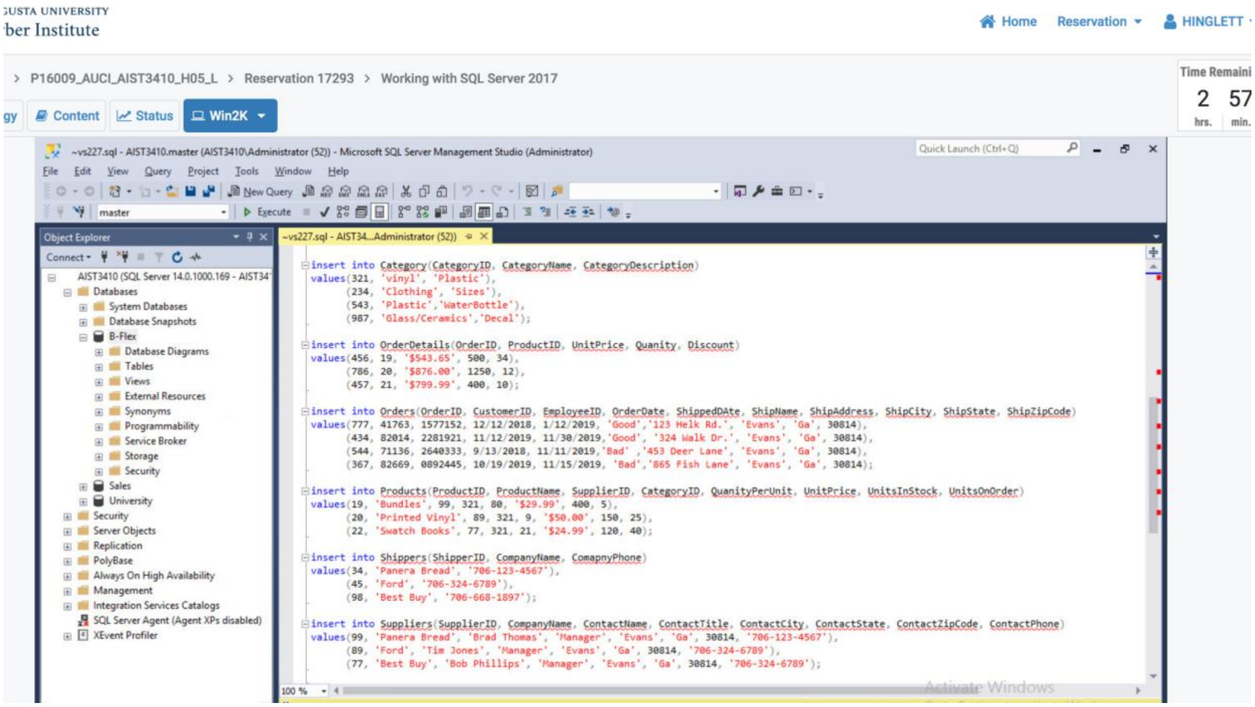


```
CREATE TABLE Orders (
    OrderID int,
    CustomerID varchar(5),
    EmployeeID int,
    OrderDate datetime,
    ShippedDAte datetime,
    ShipName varchar(40),
    ShipAddress varchar(60),
    ShipCity varchar(15),
    ShipState varchar(15),
    ShipZipCode varchar(15)

    PRIMARY KEY (OrderID)

    );

CREATE TABLE OrderDetails (
    OrderID int,
    ProductID int,
    UnitPrice money,
    Quanity int,
    Discount real

    PRIMARY KEY (OrderID)

    );

CREATE TABLE Shippers (
    ShipperID int,
    CompanyName varchar(40),
    ComapnyPhone varchar(24)
```



```
CREATE TABLE Products (
    ProductID int,
    ProductName varchar(40),
    SupplierID int,
    CategoryID int,
    QuanityPerUnit varchar(20),
    UnitPrice money,
    UnitsInStock int,
    UnitsOnOrder int

    PRIMARY KEY (ProductID)

    );

CREATE TABLE Category (
    CategoryID int,
    CategoryName varchar(15),
    CategoryDescription text

    PRIMARY KEY (CategoryID)

    );

CREATE TABLE Suppliers (
    SupplierID int,
    CompanyName varchar(40),
    ContactName varchar(30),
    ContactTitle varchar(30),
    ContactAddress varchar(60),
    ContactCity varchar(15),
    ContactState varchar(15),
    ContactZipCode varchar(10),
```

Step 2.) After creating each table in the B-Flex database, we had to insert data into each table. As you can see in the Customers table, we started to insert a lot of data (20 rows). We decided having this much data was unnecessary and not needed to prove the point or functionality of the database. Therefore, the remaining tables only have roughly 4 rows of data.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Databases
System Databases
Database Snapshots
B-Flex
Database Diagrams
Tables
Views
External Resources
Synonyms
Programmability
Service Broker
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Sales
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Server Objects
Replication
PolyBase
Always On High Availability
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Integration Services Catalogs
SQL Server Agent (Agent XPs disabled)
XEvent Profiler
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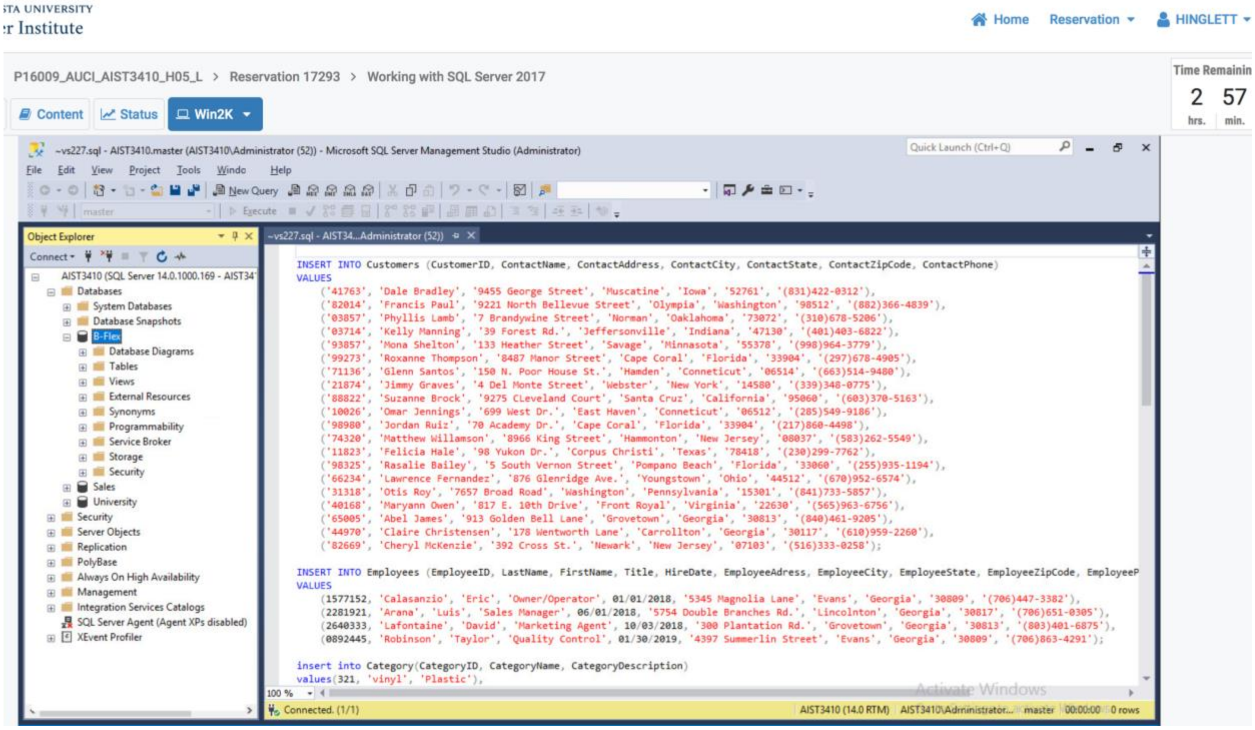
```sql
insert into Category(CategoryID, CategoryName, CategoryDescription)
values(321, 'vinyl', 'Plastic'),
      (234, 'Clothing', 'Sizes'),
      (543, 'Plastic','WaterBottle'),
      (987, 'Glass/Ceramics','Decal');

insert into OrderDetails(OrderID, ProductID, UnitPrice, Quanity, Discount)
values(456, 19, '$543.65', 500, 34),
      (786, 20, '$876.00', 1250, 12),
      (457, 21, '$799.99', 400, 10);

insert into Orders(OrderID, CustomerID, EmployeeID, OrderDate, ShippedDAte, ShipName, ShipAddress, ShipCity, ShipState, ShipZipCode)
values(777, 41763, 1577152, 12/12/2018, 1/12/2019, 'Good','123 Helk Rd.', 'Evans', 'Ga', 30814),
      (434, 82014, 2281921, 11/12/2019, 11/30/2019,'Good', '324 Walk Dr.', 'Evans', 'Ga', 30814),
      (544, 71136, 2640333, 9/13/2018, 11/11/2019,'Bad' ,'453 Deer Lane', 'Evans', 'Ga', 30814),
      (367, 82669, 0892445, 10/19/2019, 11/15/2019, 'Bad','865 Fish Lane', 'Evans', 'Ga', 30814);

insert into Products(ProductID, ProductName, SupplierID, CategoryID, QuanityPerUnit, UnitPrice, UnitsInStock, UnitsOnOrder)
values(19, 'Bundles', 99, 321, 80, '$29.99', 400, 5),
      (20, 'Printed Vinyl', 89, 321, 9, '$50.00', 150, 25),
      (22, 'Swatch Books', 77, 321, 21, '$24.99', 120, 40);

insert into Shippers(ShipperID, CompanyName, ComapnyPhone)
values(34, 'Panera Bread', '706-123-4567'),
      (45, 'Ford', '706-324-6789'),
      (98, 'Best Buy', '706-668-1897');

insert into Suppliers(SupplierID, CompanyName, ContactName, ContactTitle, ContactCity, ContactState, ContactZipCode, ContactPhone)
values(99, 'Panera Bread', 'Brad Thomas', 'Manager', 'Evans', 'Ga', 30814, '706-123-4567'),
      (89, 'Ford', 'Tim Jones', 'Manager', 'Evans', 'Ga', 30814, '706-324-6789'),
      (77, 'Best Buy', 'Bob Phillips', 'Manager', 'Evans', 'Ga', 30814, '706-324-6789');
```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Databases
System Databases
Database Snapshots
B-Flex
Database Diagrams
Tables
Views
External Resources
Synonyms
Programmability
Service Broker
Storage
Security
Sales
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Security
Server Objects
Replication
PolyBase
Always On High Availability
Management
Integration Services Catalogs
SQL Server Agent (Agent XPs disabled)
XEvent Profiler
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AIST3410 (14.0 RTM)
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master
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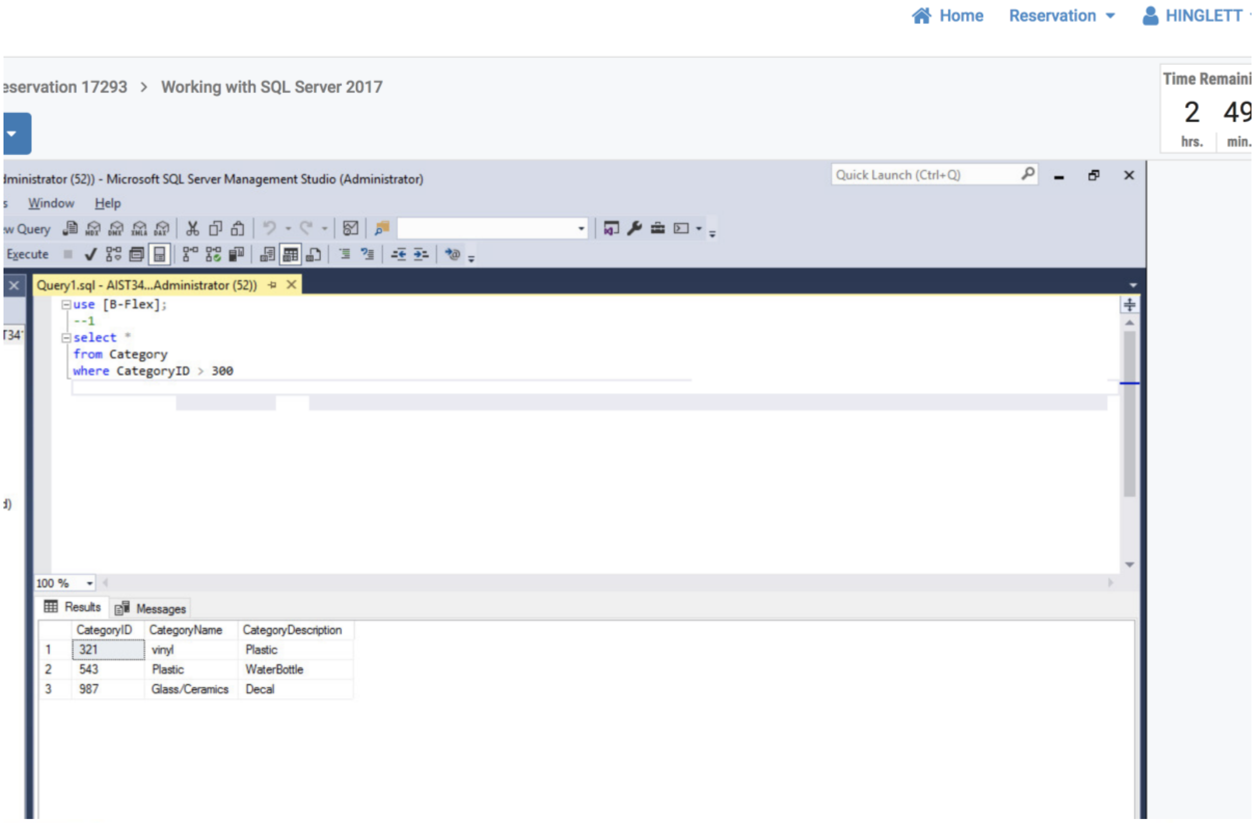
```sql
INSERT INTO Customers (CustomerID, ContactName, ContactAddress, ContactCity, ContactState, ContactZipCode, ContactPhone)
VALUES
    ('41763', 'Dale Bradley', '9455 George Street', 'Muscatine', 'Iowa', '52761', '(831)422-0312'),
    ('82014', 'Francis Paul', '9221 North Bellevue Street', 'Olympia', 'Washington', '98512', '(882)366-4839'),
    ('03857', 'Phyllis Lamb', '7 Brandywine Street', 'Norman', 'Oaklahoma', '73072', '(310)678-5206'),
    ('03714', 'Kelly Manning', '39 Forest Rd.', 'Jeffersonville', 'Indiana', '47130', '(401)403-6822'),
    ('93857', 'Mona Shelton', '133 Heather Street', 'Savage', 'Minnasota', '55378', '(998)964-3779'),
    ('99273', 'Roxanne Thompson', '8487 Manor Street', 'Cape Coral', 'Florida', '33904', '(297)678-4905'),
    ('71136', 'Glenn Santos', '150 N. Poor House St.', 'Hamden', 'Conneticut', '06514', '(663)514-9480'),
    ('21874', 'Jimmy Graves', '4 Del Monte Street', 'Webster', 'New York', '14580', '(339)348-0775'),
    ('88822', 'Suzanne Brock', '9275 CLeveland Court', 'Santa Cruz', 'California', '95060', '(603)370-5163'),
    ('10026', 'Omar Jennings', '699 West Dr.', 'East Haven', 'Conneticut', '06512', '(285)549-9186'),
    ('98980', 'Jordan Ruiz', '70 Academy Dr.', 'Cape Coral', 'Florida', '33904', '(217)860-4498'),
    ('74320', 'Matthew Willamson', '8966 King Street', 'Hammonton', 'New Jersey', '08037', '(583)262-5549'),
    ('11823', 'Felicia Hale', '98 Yukon Dr.', 'Corpus Christi', 'Texas', '78418', '(230)299-7762'),
    ('98325', 'Rasalie Bailey', '5 South Vernon Street', 'Pompano Beach', 'Florida', '33060', '(255)935-1194'),
    ('66234', 'Lawrence Fernandez', '876 Glenridge Ave.', 'Youngstown', 'Ohio', '44512', '(670)952-6574'),
    ('31318', 'Otis Roy', '7657 Broad Road', 'Washington', 'Pennsylvania', '15301', '(841)733-5857'),
    ('40168', 'Maryann Owen', '817 E. 10th Drive', 'Front Royal', 'Virginia', '22630', '(565)963-6756'),
    ('65005', 'Abel James', '913 Golden Bell Lane', 'Grovetown', 'Georgia', '30813', '(840)461-9205'),
    ('44970', 'Claire Christensen', '178 Wentworth Lane', 'Carrollton', 'Georgia', '30117', '(610)959-2260'),
    ('82669', 'Cheryl McKenzie', '392 Cross St.', 'Newark', 'New Jersey', '07103', '(516)333-0258');

INSERT INTO Employees (EmployeeID, LastName, FirstName, Title, HireDate, EmployeeAdress, EmployeeCity, EmployeeState, EmployeeZipCode, EmployeeP
VALUES
    (1577152, 'Calasanzio', 'Eric', 'Owner/Operator', 01/01/2018, '5345 Magnolia Lane', 'Evans', 'Georgia', '30809', '(706)447-3382'),
    (2281921, 'Arana', 'Luis', 'Sales Manager', 06/01/2018, '5754 Double Branches Rd.', 'Lincolnton', 'Georgia', '30817', '(706)651-0305'),
    (2640333, 'Lafontaine', 'David', 'Marketing Agent', 10/03/2018, '300 Plantation Rd.', 'Grovetown', 'Georgia', '30813', '(803)401-6875'),
    (0892445, 'Robinson', 'Taylor', 'Quality Control', 01/30/2019, '4397 Summerlin Street', 'Evans', 'Georgia', '30809', '(706)863-4291');

insert into Category(CategoryID, CategoryName, CategoryDescription)
values(321, 'vinyl', 'Plastic'),
```

Step 3.) Once all the data was inserted into the tables inside of the database, we created 12 SQL queries to ensure that data could be extracted correctly. Below are screenshots of each query executed.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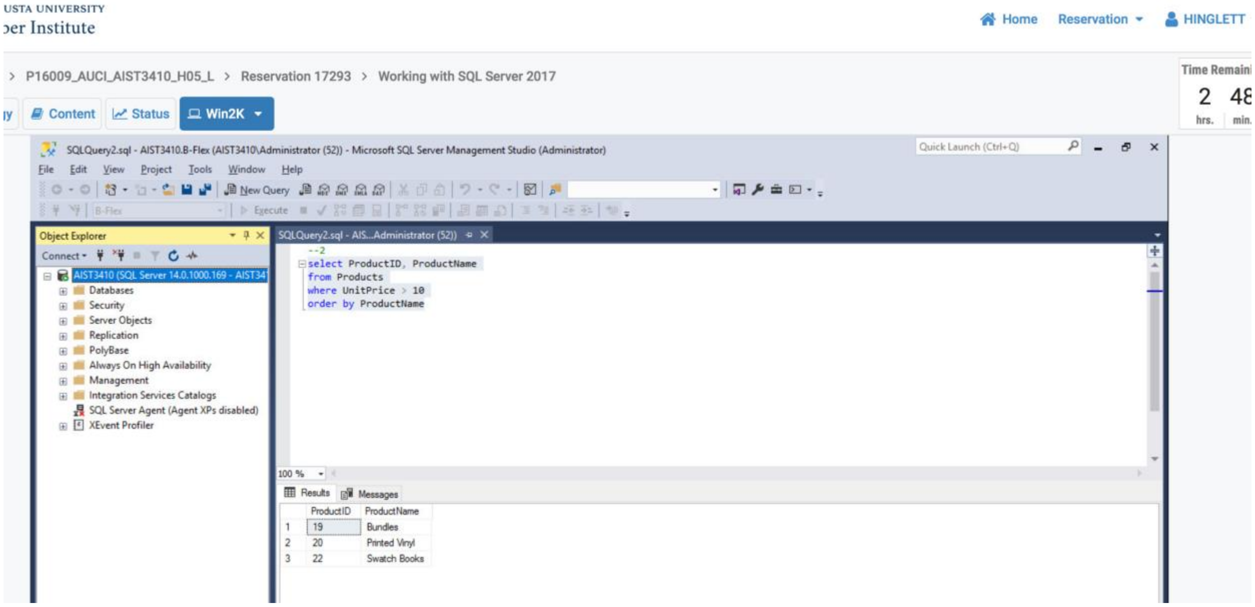
```
use [B-Flex];
--1
select *
from Category
where CategoryID > 300
```

	CategoryID	CategoryName	CategoryDescription
1	321	vinyl	Plastic
2	543	Plastic	WaterBottle
3	987	Glass/Ceramics	Decal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Server Objects
Replication
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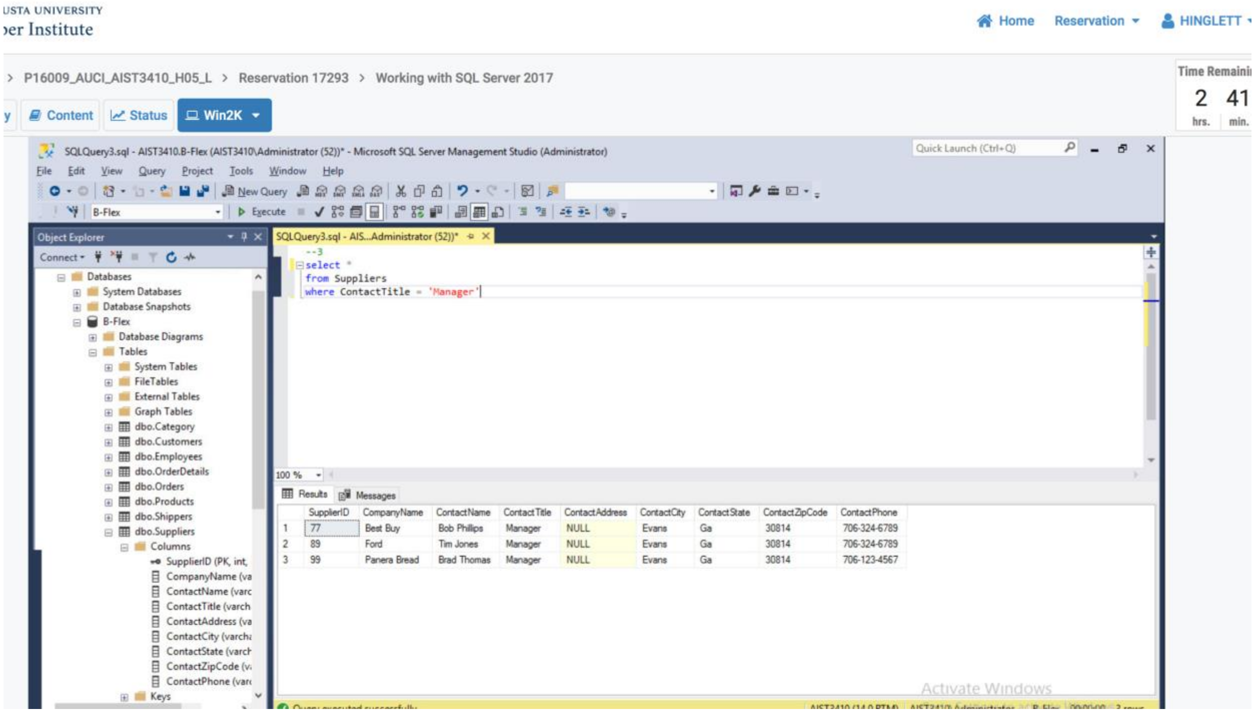
100 %
Results
Messages

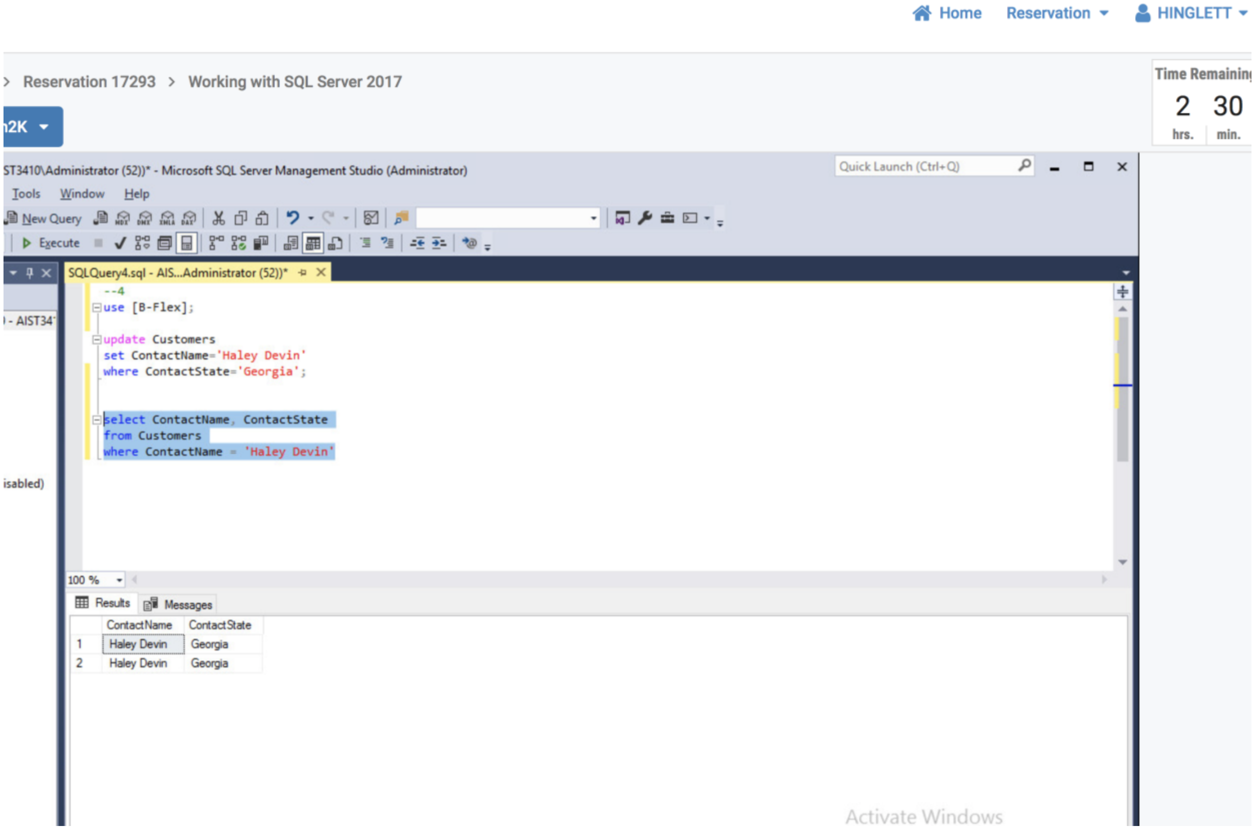
```
--2
select ProductID, ProductName
from Products
where UnitPrice > 10
order by ProductName
```

	ProductID	ProductName
1	19	Bundles
2	20	Printed Vinyl
3	22	Swatch Books



```
--3
select *
from Suppliers
where ContactTitle = 'Manager'
```

	SupplierID	CompanyName	ContactName	ContactTitle	ContactAddress	ContactCity	ContactState	ContactZipCode	ContactPhone
1	77	Best Buy	Bob Phillips	Manager	NULL	Evans	Ga	30814	706-324-6789
2	89	Ford	Tim Jones	Manager	NULL	Evans	Ga	30814	706-324-6789
3	99	Panera Bread	Brad Thomas	Manager	NULL	Evans	Ga	30814	706-123-4567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New Query
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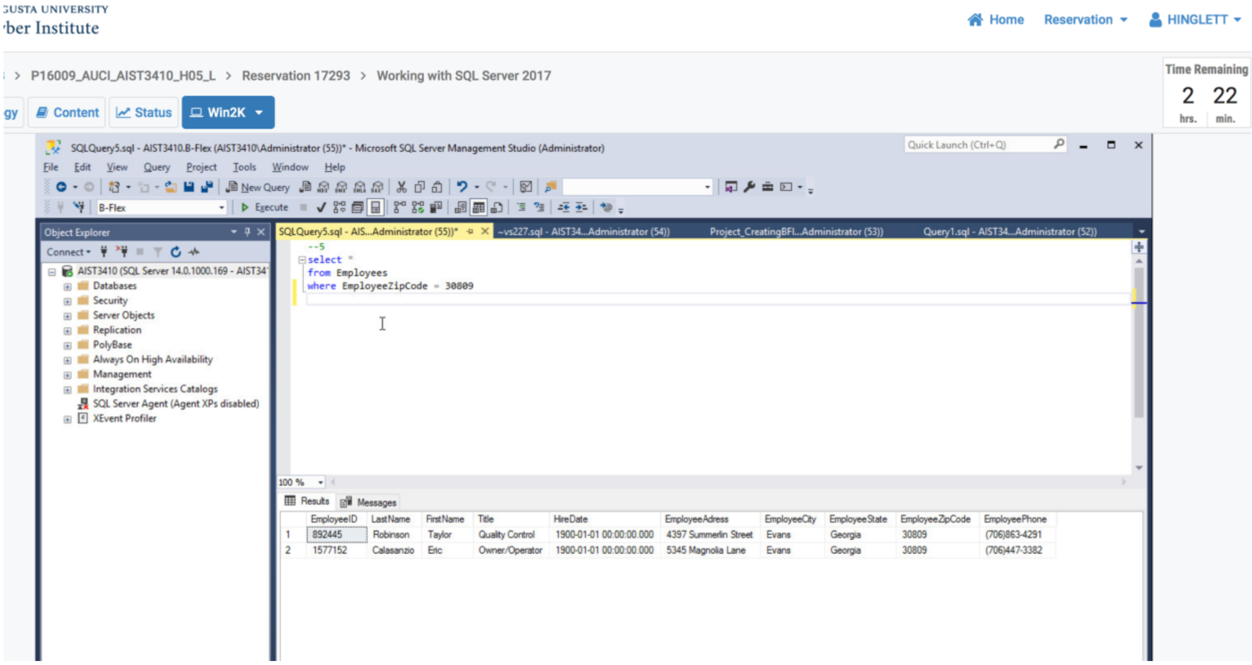
```
--4
use [B-Flex];

update Customers
set ContactName='Haley Devin'
where ContactState='Georgia';


select ContactName, ContactState
from Customers
where ContactName = 'Haley Devin'
```

	ContactName	ContactState
1	Haley Devin	Georgia
2	Haley Devin	Georgia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Results
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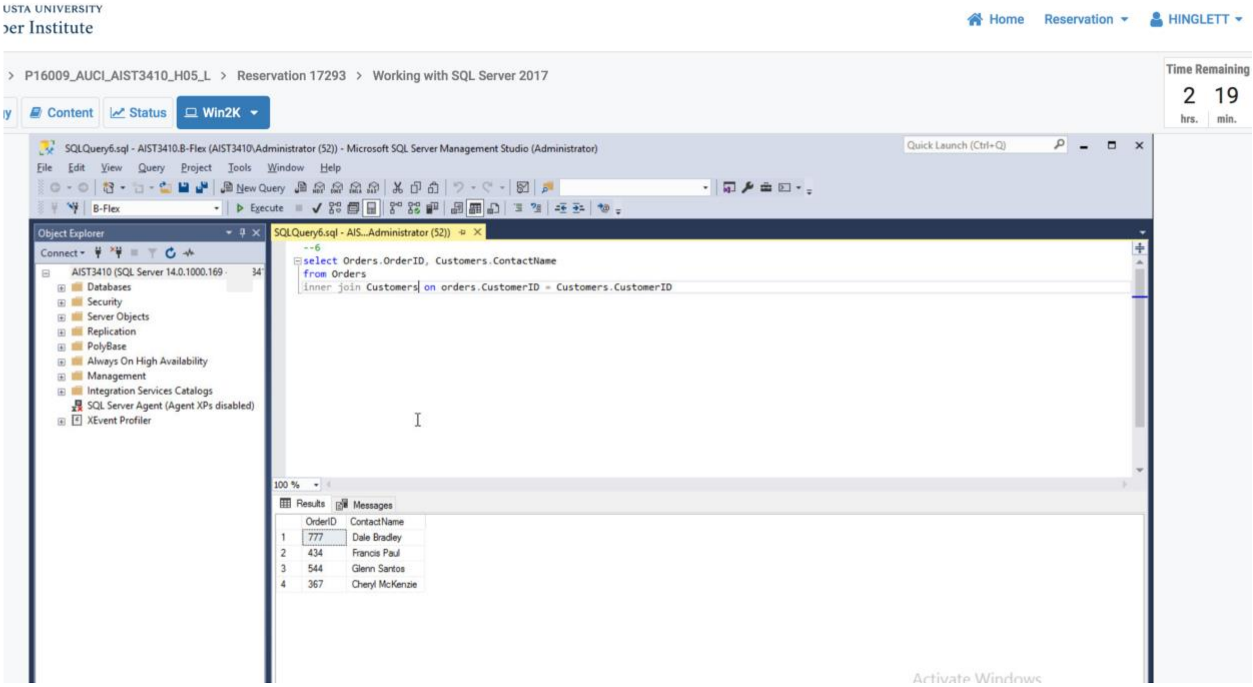
```sql
--5
select *
from Employees
where EmployeeZipCode = 30809
```

	EmployeeID	LastName	FirstName	Title	HireDate	EmployeeAdress	EmployeeCity	EmployeeState	EmployeeZipCode	EmployeePhone
1	892445	Robinson	Taylor	Quality Control	1900-01-01 00:00:00.000	4397 Summerlin Street	Evans	Georgia	30809	(706)863-4291
2	1577152	Calasanzio	Eric	Owner/Operator	1900-01-01 00:00:00.000	5345 Magnolia Lane	Evans	Georgia	30809	(706)447-3382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Reservation
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P16009_AUCI_AIST3410_H05_L > Reservation 17293 > Working with SQL Server 2017
Time Remaining
2 hrs. 19 min.
Content
Status
Win2K
SQLQuery6.sql - AIST3410.B-Flex (AIST3410\Administrator (52)) - Microsoft SQL Server Management Studio (Administrator)
Quick Launch (Ctrl+Q)
File Edit View Query Project Tools Window Help
New Query
B-Flex
Execute
Object Explorer
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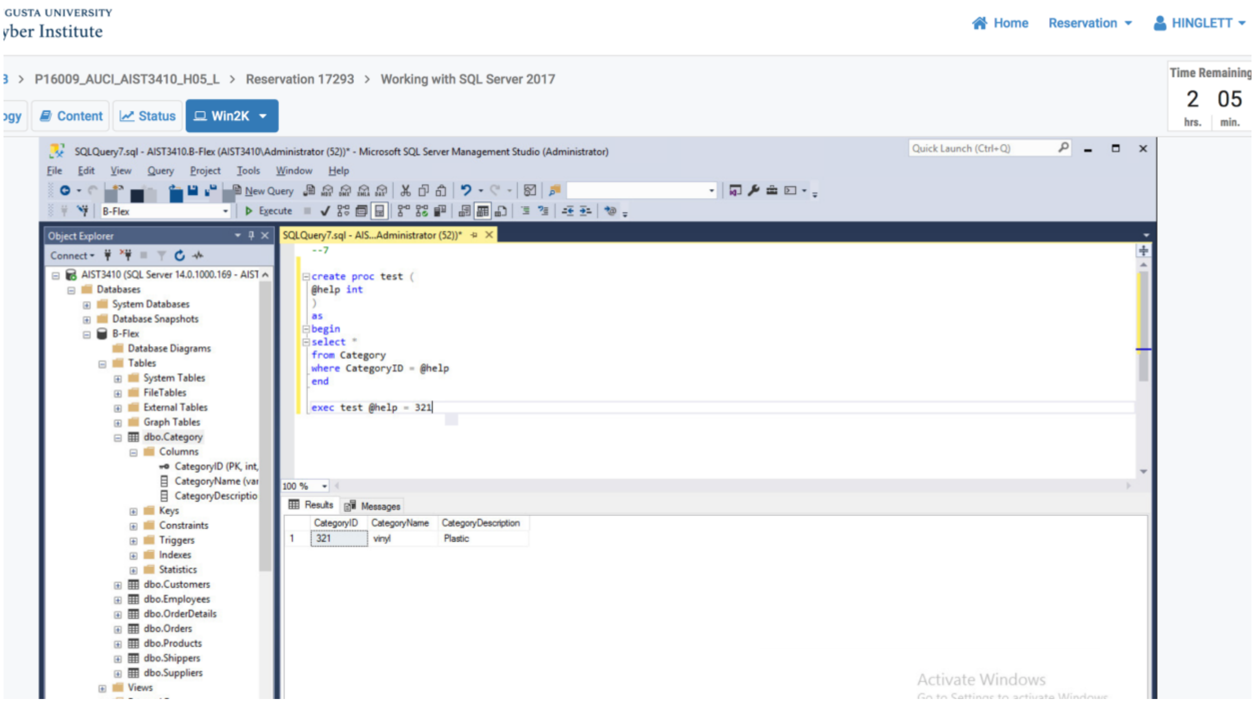
AIST3410 (SQL Server 14.0.1000.169 - 34
Databases
Security
Server Objects
Replication
PolyBase
Always On High Availability
Management
Integration Services Catalogs
SQL Server Agent (Agent XPs disabled)
XEvent Profiler
SQLQuery6.sql - AIS...Administrator (52))
100 %
Results
Messages
Activate Windows

```sql
--6
select Orders.OrderID, Customers.ContactName
from Orders
inner join Customers on orders.CustomerID = Customers.CustomerID
```

	OrderID	ContactName
1	777	Dale Bradley
2	434	Francis Paul
3	544	Glenn Santos
4	367	Cheryl McKenzie

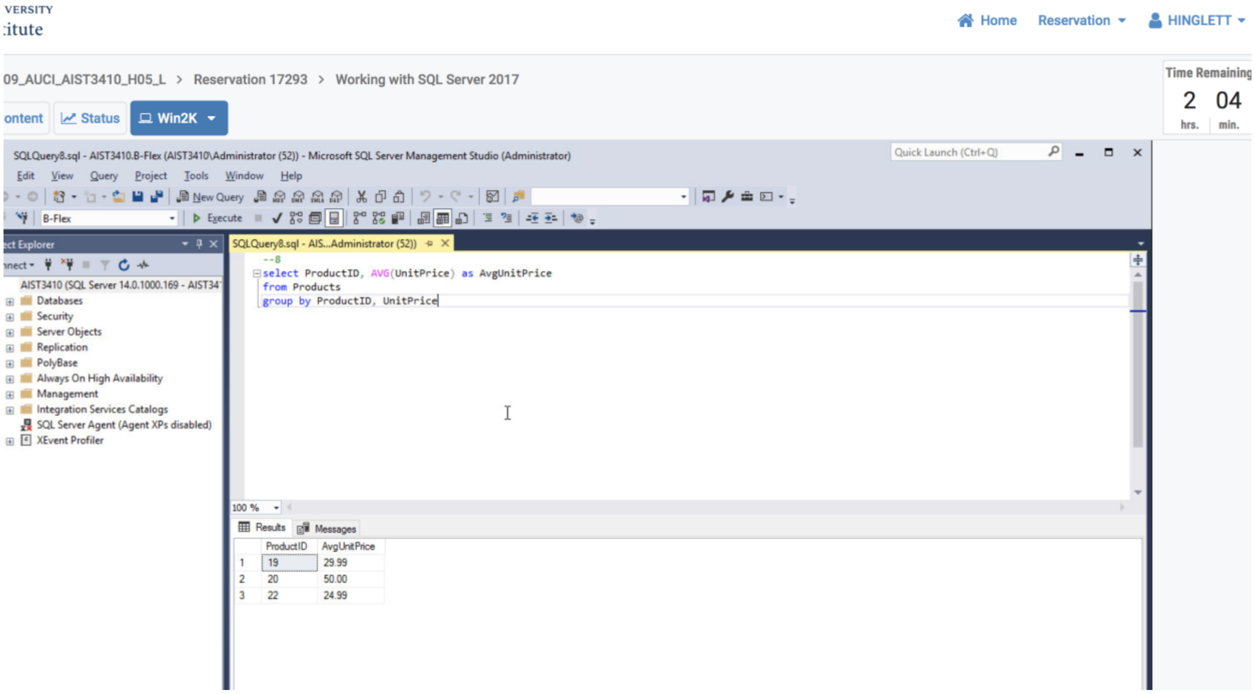


```
--7

create proc test (
@help int
)
as
begin
select *
from Category
where CategoryID = @help
end

exec test @help = 321
```

	CategoryID	CategoryName	CategoryDescription
1	321	vinyl	Plastic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SQLQuery8.sql - AIST3410.B-Flex (AIST3410\Administrator (52)) - Microsoft SQL Server Management Studio (Administrator)
Edit View Query Project Tools Window Help
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Databases
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Server Objects
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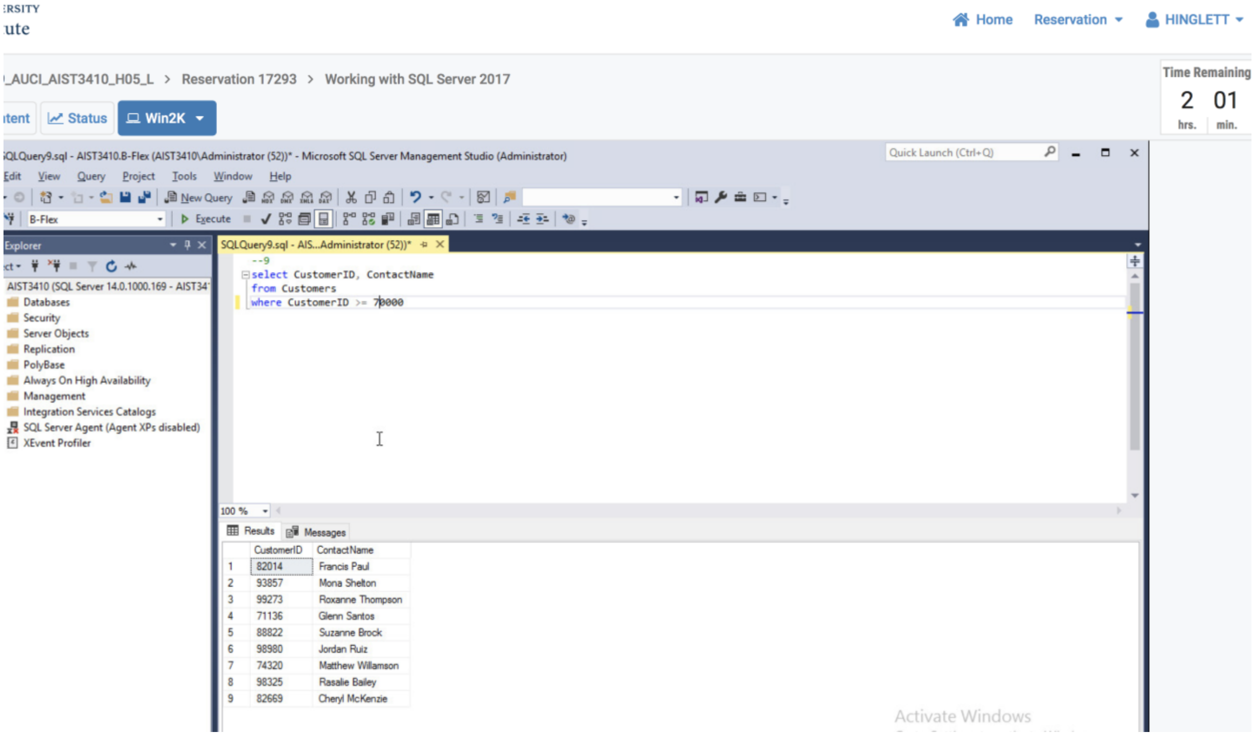
PolyBase
Always On High Availability
Management
Integration Services Catalogs
SQL Server Agent (Agent XPs disabled)
XEvent Profiler
SQLQuery8.sql - AIS...Administrator (52))
100 %
Results
Messages

```
--8
select ProductID, AVG(UnitPrice) as AvgUnitPrice
from Products
group by ProductID, UnitPrice
```

	ProductID	AvgUnitPrice
1	19	29.99
2	20	50.00
3	22	24.99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Time Remaining 2 hrs. 01 min.
Status
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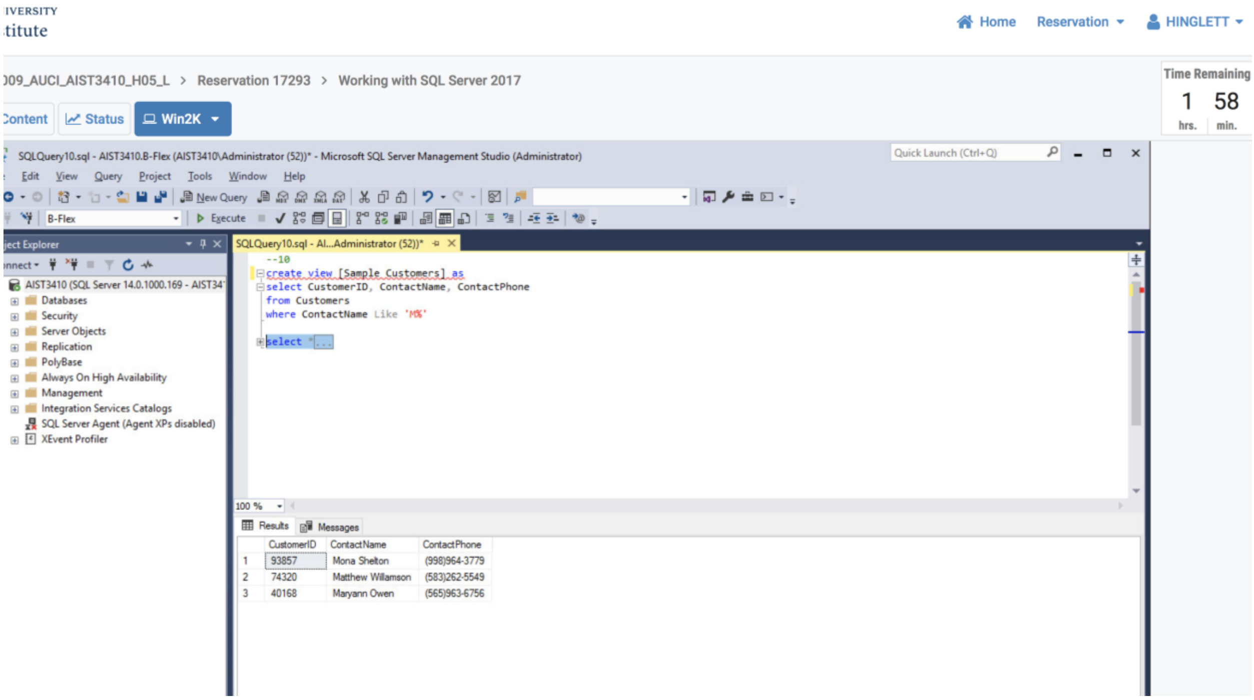
SQLQuery9.sql - AIST3410.B-Flex (AIST3410\Administrator (52))* - Microsoft SQL Server Management Studio (Administrator)
SQLQuery9.sql - AIS...Administrator (52))*
Databases
Security
Server Objects
Replication
PolyBase
Always On High Availability
Management
Integration Services Catalogs
SQL Server Agent (Agent XPs disabled)
XEvent Profiler
Results
Messages
Activate Windows

```
--9
select CustomerID, ContactName
from Customers
where CustomerID >= 70000
```

	CustomerID	ContactName
1	82014	Francis Paul
2	93857	Mona Shelton
3	99273	Roxanne Thompson
4	71136	Glenn Santos
5	88822	Suzanne Brock
6	98980	Jordan Ruiz
7	74320	Matthew Willamson
8	98325	Rasalie Bailey
9	82669	Cheryl McKenzie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Time Remaining 1 hrs. 58 min.
Content
Status
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SQLQuery10.sql - AIST3410.B-Flex (AIST3410\Administrator (52))* - Microsoft SQL Server Management Studio (Administrator)
SQLQuery10.sql - AI...Administrator (52))*
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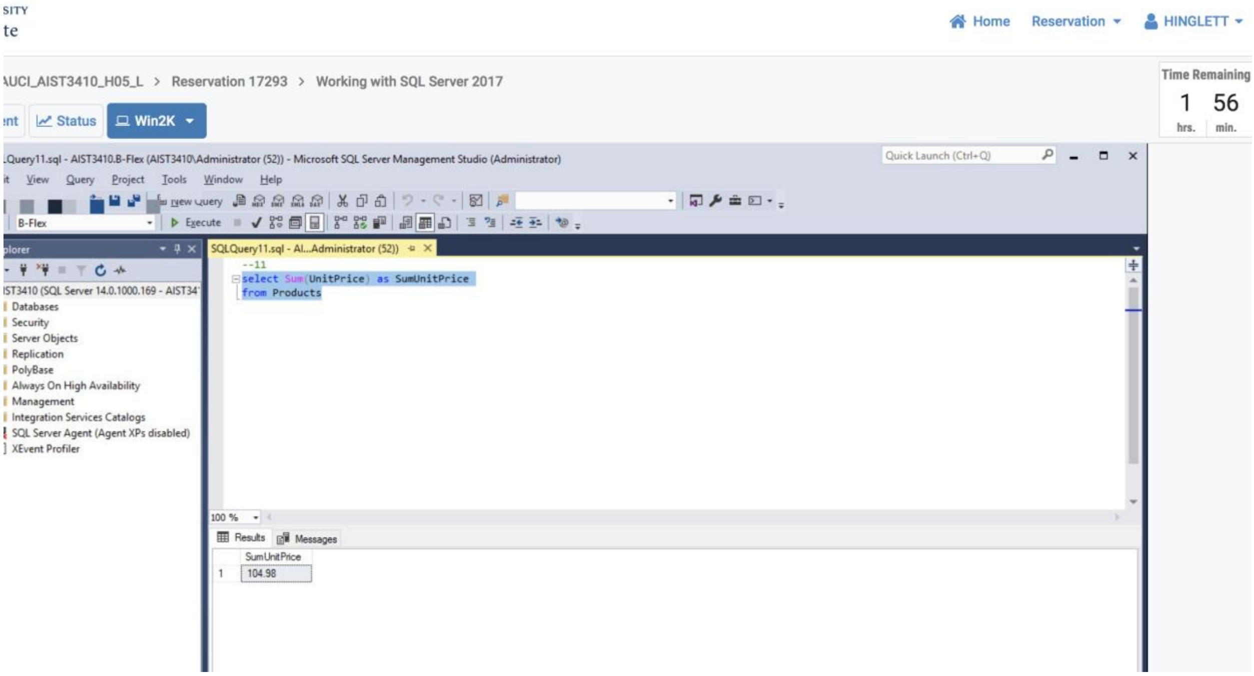
Server Objects
Replication
PolyBase
Always On High Availability
Management
Integration Services Catalogs
SQL Server Agent (Agent XPs disabled)
XEvent Profiler
Results
Messages

```
--10
create view [Sample Customers] as
select CustomerID, ContactName, ContactPhone
from Customers
where ContactName Like 'M%'

select *...
```

	CustomerID	ContactName	ContactPhone
1	93857	Mona Shelton	(998)964-3779
2	74320	Matthew Willamson	(583)262-5549
3	40168	Maryann Owen	(565)963-6756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AUCI_AIST3410_H05_L > Reservation 17293 > Working with SQL Server 2017
Status
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Quick Launch (Ctrl+Q)
View Query Project Tools Window Help
New Query
Execute
B-Flex
Databases
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Server Objects
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Management
Integration Services Catalogs
SQL Server Agent (Agent XPs disabled)
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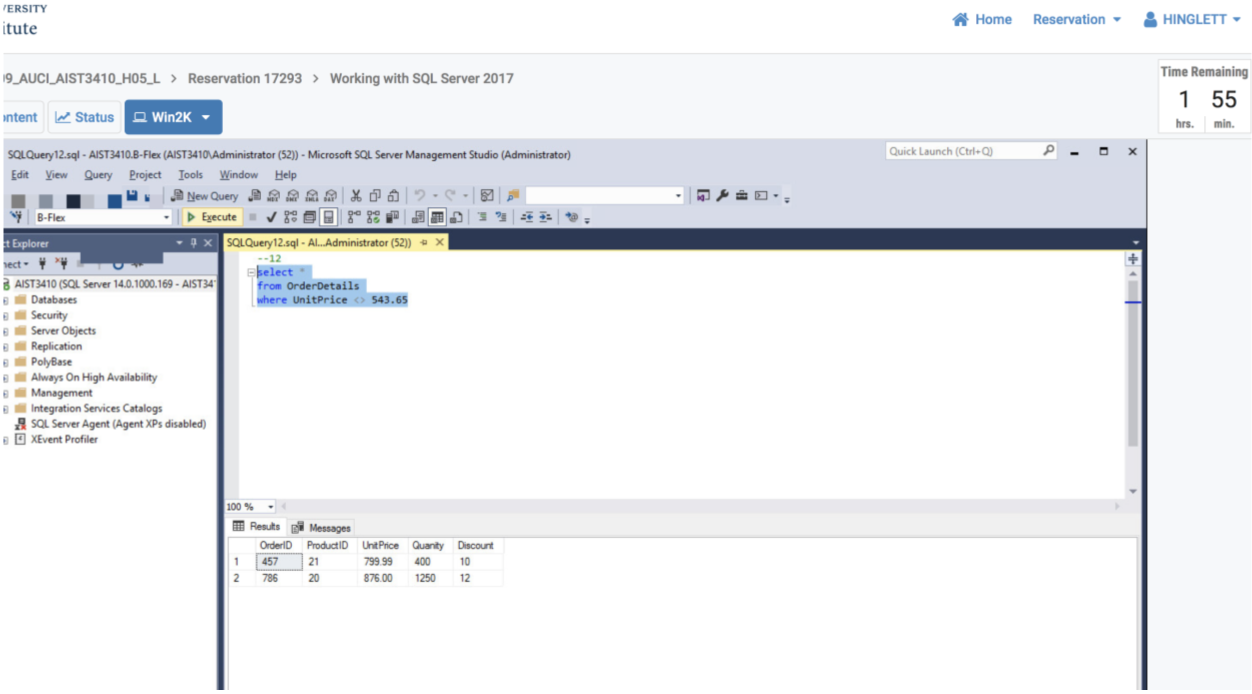
Query11.sql - AIST3410.B-Flex (AIST3410\Administrator (52)) - Microsoft SQL Server Management Studio (Administrator)

IST3410 (SQL Server 14.0.1000.169 - AIST34

SQLQuery11.sql - Al...Administrator (52))

```
--11
select Sum(UnitPrice) as SumUnitPrice
from Products
```

	SumUnitPrice
1	104.98



SQLQuery12.sql - AIST3410.B-Flex (AIST3410\Administrator (52)) - Microsoft SQL Server Management Studio (Administrator)

AIST3410 (SQL Server 14.0.1000.169 - AIST34

SQLQuery12.sql - Al...Administrator (52))

```
--12
select *
from OrderDetails
where UnitPrice <> 543.65
```

	OrderID	ProductID	UnitPrice	Quanity	Discount
1	457	21	799.99	400	10
2	786	20	876.00	1250	12