Practical No.4

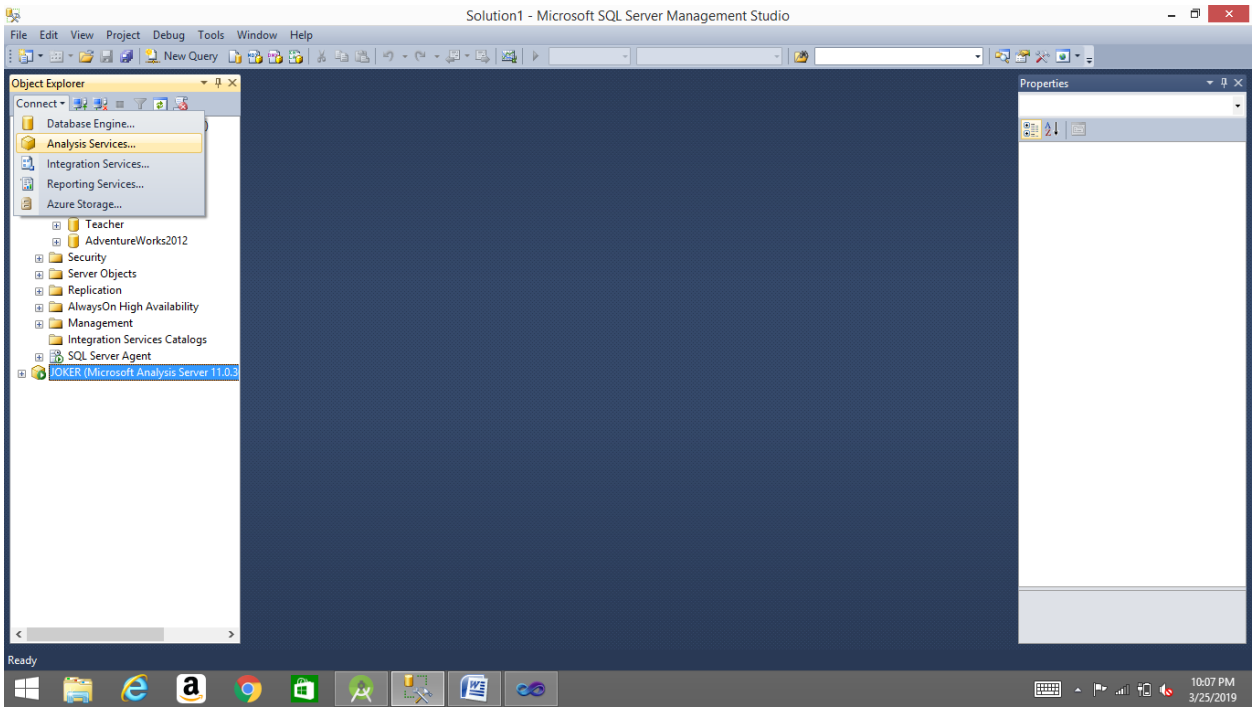
Execute the MDX queries to extract the data from the datawarehouse(Cube).

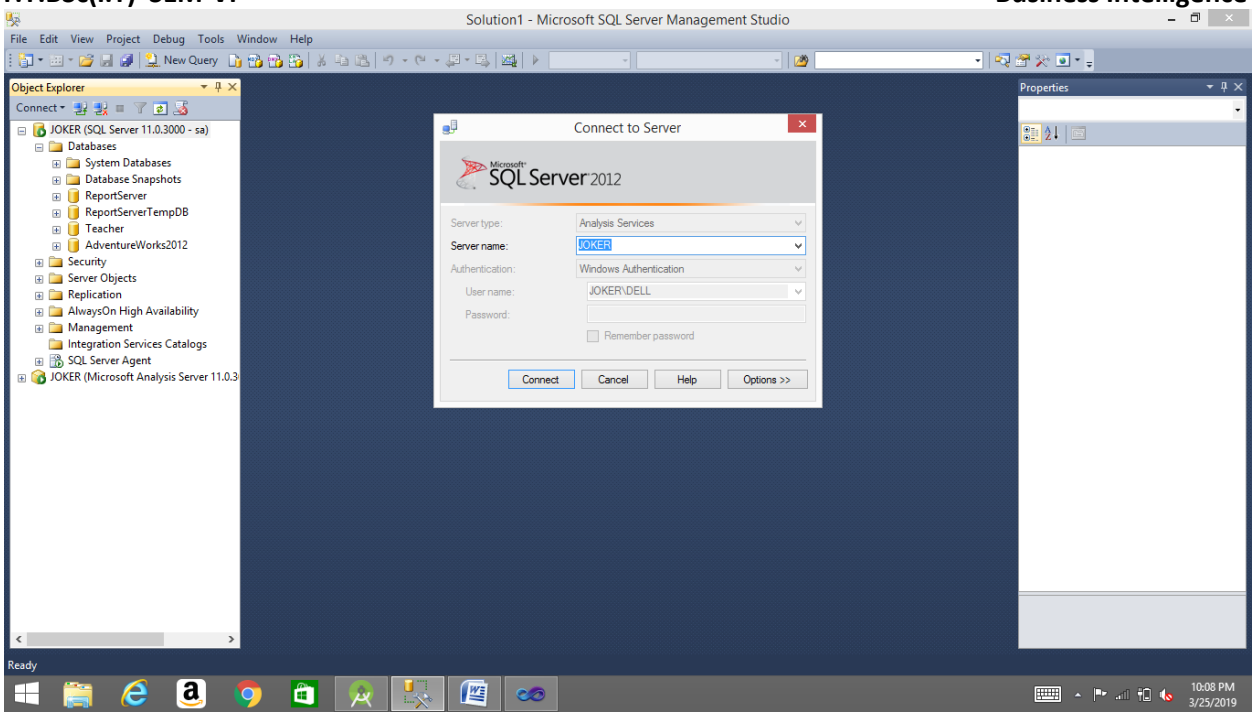
MDX Query

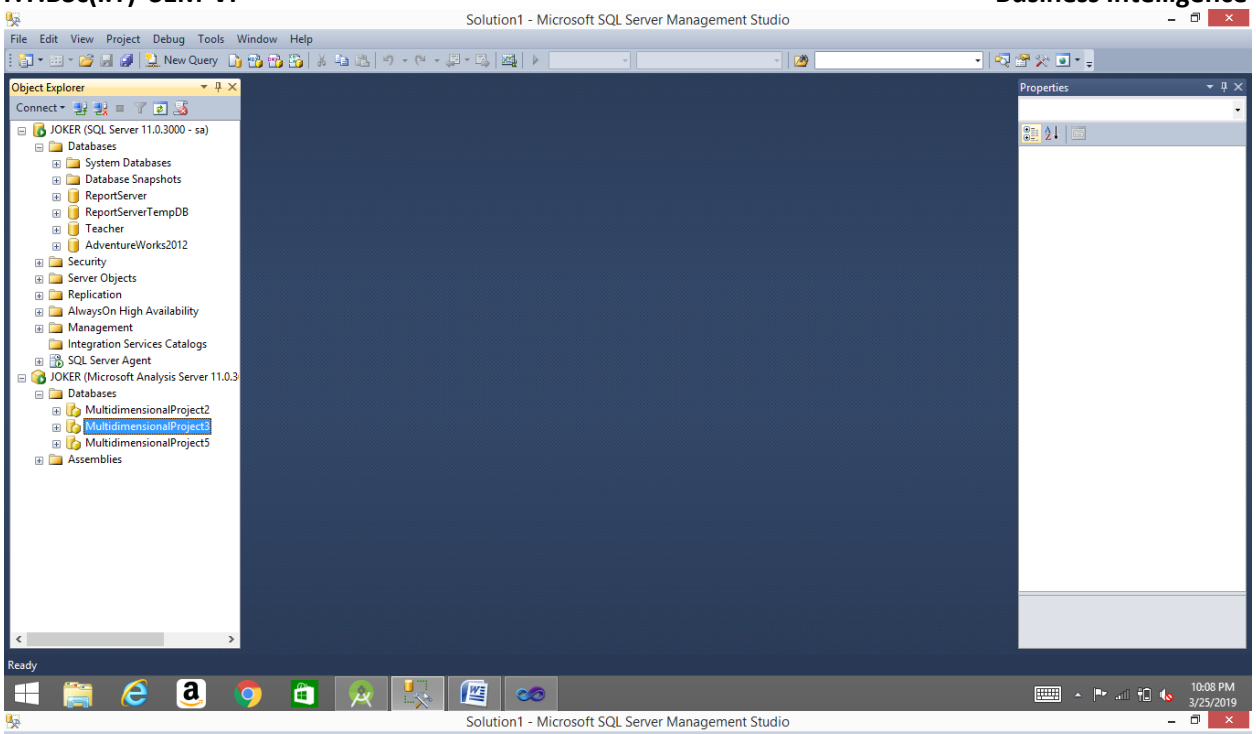
Multidimensional Expressions (**MDX**) is a **query** language for online analytical processing (OLAP) using a database management system.

Much like SQL, it is a **query** language for OLAP cubes. It is also a calculation language, with syntax similar to spreadsheet formulas

To execute MDX queries, we to login in SQL Management Studio with analysis service.




Solution1 - Microsoft SQL Server Management Studio
File Edit View Project Debug Tools Window Help
New Query
Object Explorer
Connect
JOKER (SQL Server 11.0.3000 - sa)
Databases
System Databases
Database Snapshots
ReportServer
ReportServerTempDB
Teacher
AdventureWorks2012
Security
Server Objects
Replication
AlwaysOn High Availability
Management
Integration Services Catalogs
SQL Server Agent
JOKER (Microsoft Analysis Server 11.0.3
Connect to Server
Microsoft SQL Server 2012
Server type: Analysis Services
Server name: JOKER
Authentication: Windows Authentication
User name: JOKER\DELL
Password:
Remember password
Connect
Cancel
Help
Options >>
Properties
Ready
10:08 PM
3/25/2019


Solution1 - Microsoft SQL Server Management Studio
File Edit View Project Debug Tools Window Help
New Query
Object Explorer
Connect
JOKER (SQL Server 11.0.3000 - sa)
Databases
System Databases
Database Snapshots
ReportServer
ReportServerTempDB
Teacher
AdventureWorks2012
Security
Server Objects
Replication
AlwaysOn High Availability
Management
Integration Services Catalogs
SQL Server Agent
JOKER (Microsoft Analysis Server 11.0.3
Databases
MultidimensionalProject2
MultidimensionalProject3
MultidimensionalProject5
Assemblies
Properties
Ready
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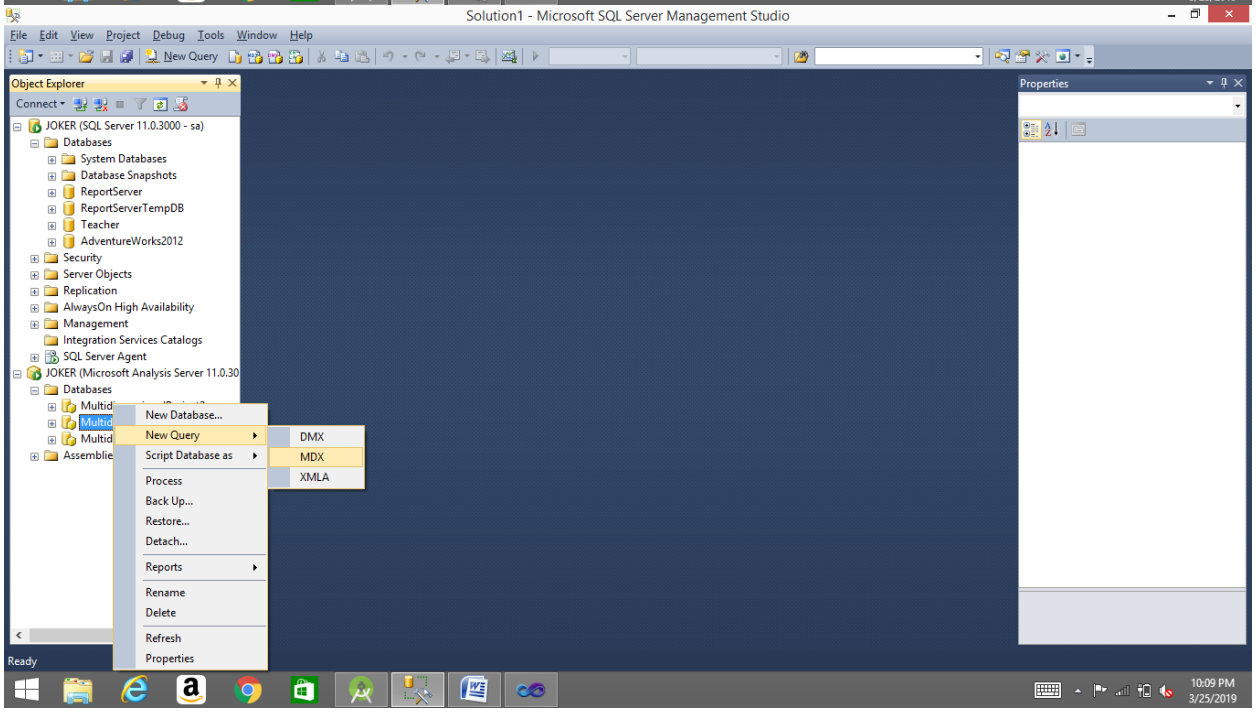
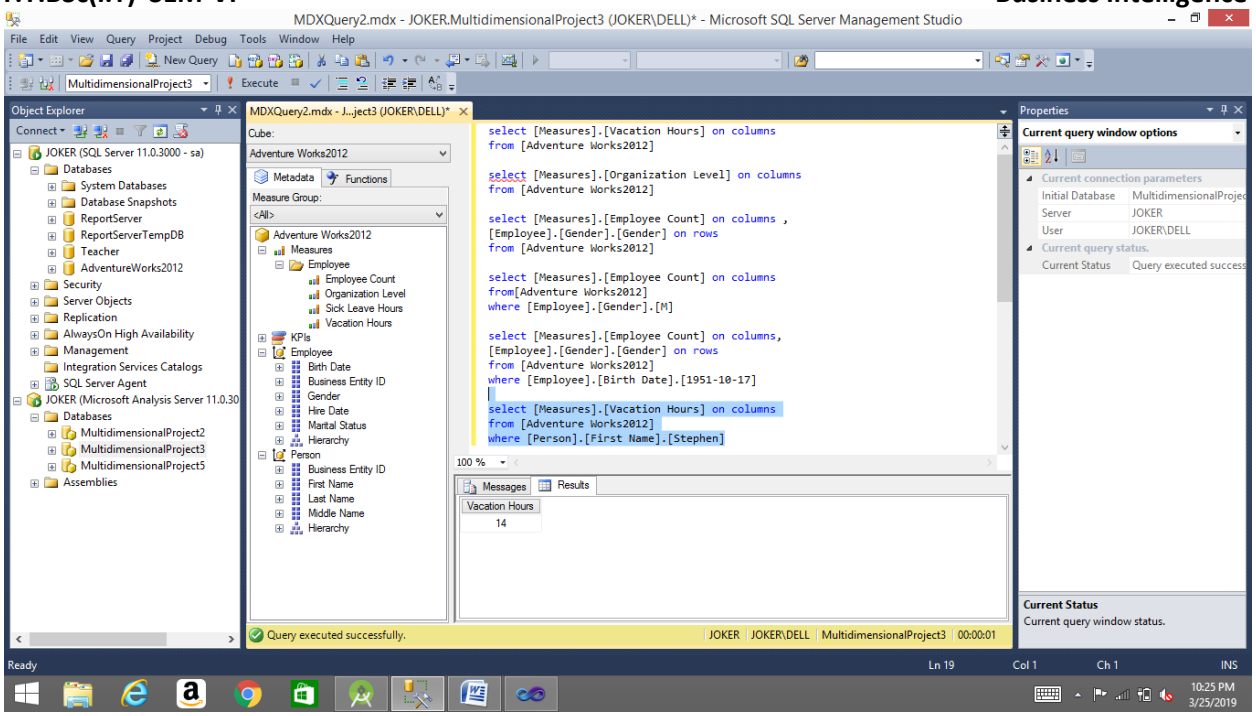

Solution1 - Microsoft SQL Server Management Studio
File Edit View Project Debug Tools Window Help
New Query
Object Explorer
Connect
JOKER (SQL Server 11.0.3000 - sa)
Databases
System Databases
Database Snapshots
ReportServer
ReportServerTempDB
Teacher
AdventureWorks2012
Security
Server Objects
Replication
AlwaysOn High Availability
Management
Integration Services Catalogs
SQL Server Agent
JOKER (Microsoft Analysis Server 11.0.30
Databases
New Database...
New Query
Script Database as
Process
Back Up...
Restore...
Detach...
Reports
Rename
Delete
Refresh
Properties
DMX
MDX
XMLA
Properties
Ready
10:09 PM
3/25/2019



Some MDX Queries

```
select[Measures].[Organization level] on columns
from [Adventure Works2012]

select[Measures].[Employee Count] on columns
from [Adventure Works2012]

select[Measures].[Vacation Hours] on columns
from [Adventure Works2012]

select[Measures].[Employee Count] on columns,
[Employee].[Gender].[Gender] on rows
from [Adventure Works2012]

select[Measures].[Employee Count] on columns
from [Adventure Works2012]
where [Employee].[Gender].F

select[Measures].[Employee Count] on columns
from [Adventure Works2012]
where [Employee].[Gender].M

select[Measures].[Employee Count] on columns,
[Employee].[Gender].[Gender] on rows
from [Adventure Works2012]
where [Employee].[Birth Date].[1951-10-17]]

select[Measures].[Vacation Hours] on columns
from [Adventure Works2012]
where [Person].[First Name].[Stephen]
```

```
select [Measures].[Employee Count] on columns
from [Adventure Works2012]

select [Measures].[Organization Level] on columns
from [Adventure Works2012]

select [Measures].[Sick Leave Hours] on columns
from [Adventure Works2012];

select [Measures].[Vacation Hours] on columns
from [Adventure Works2012]

select [Measures].[Vacation Hours] on columns
, [Employee].[Gender].[Gender] on rows
from [Adventure Works2012]

select [Measures].[Vacation Hours] on columns
, [Employee].[Marirtal Status].[Marirtal Status] on rows
from [Adventure Works2012]

select [Measures].[Vacation Hours] on columns
,NONEMPTY({ [Employee].[Gender].[Gender]}) on rows
from [Adventure Works2012]

select [Measures].[Employee Count] on columns
from [Adventure Works2012]
where [Employee].[Gender].[Gender].&[M]

select [Measures].[Employee Count] on columns
from [Adventure Works2012]
where [Employee].[Gender].[Gender].&[F]

select [Measures].[Employee Count] on columns
from [Adventure Works2012]
where [Employee].[Marital Status].&[S]

select [Measures].[Employee Count] on columns
from [Adventure Works2012]
where [Employee].[Marital Status].&[M]

select [Measures].[Employee Count] on columns
, [Employee].[Marital Status] on rows
from [Adventure Works2012]
```