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POWER BI

DAX Studio Installation

DAX Queries Execution in the DAX Studio

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WE'VE WORKED WITH A DIVERSE CUSTOMER BASE. HOW CAN WE HELP YOU?

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DAX STUDIO INSTALLATION, PRACTICE & QUERY PLANS

INSTALLATION

Google→ DAX studio download→ It will be downloaded DAX.Org

What is DAX Studio? What kind of support it provides?

DAX Studio is a third party studio, which is helpful to run queries against Power Pivot, Tabular Model, and Power BI Desktop applications.

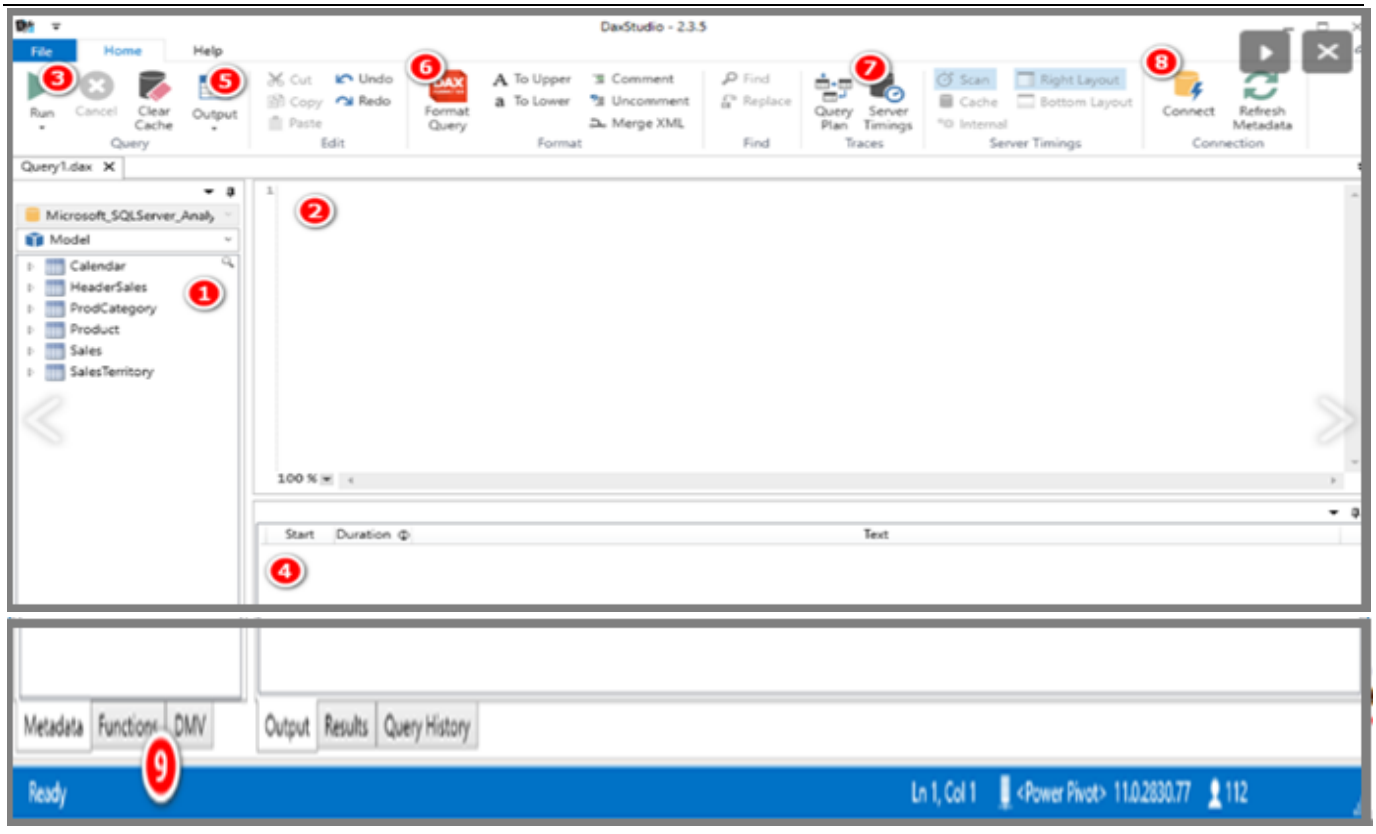
It provides two major services

a) GUI service to write queries

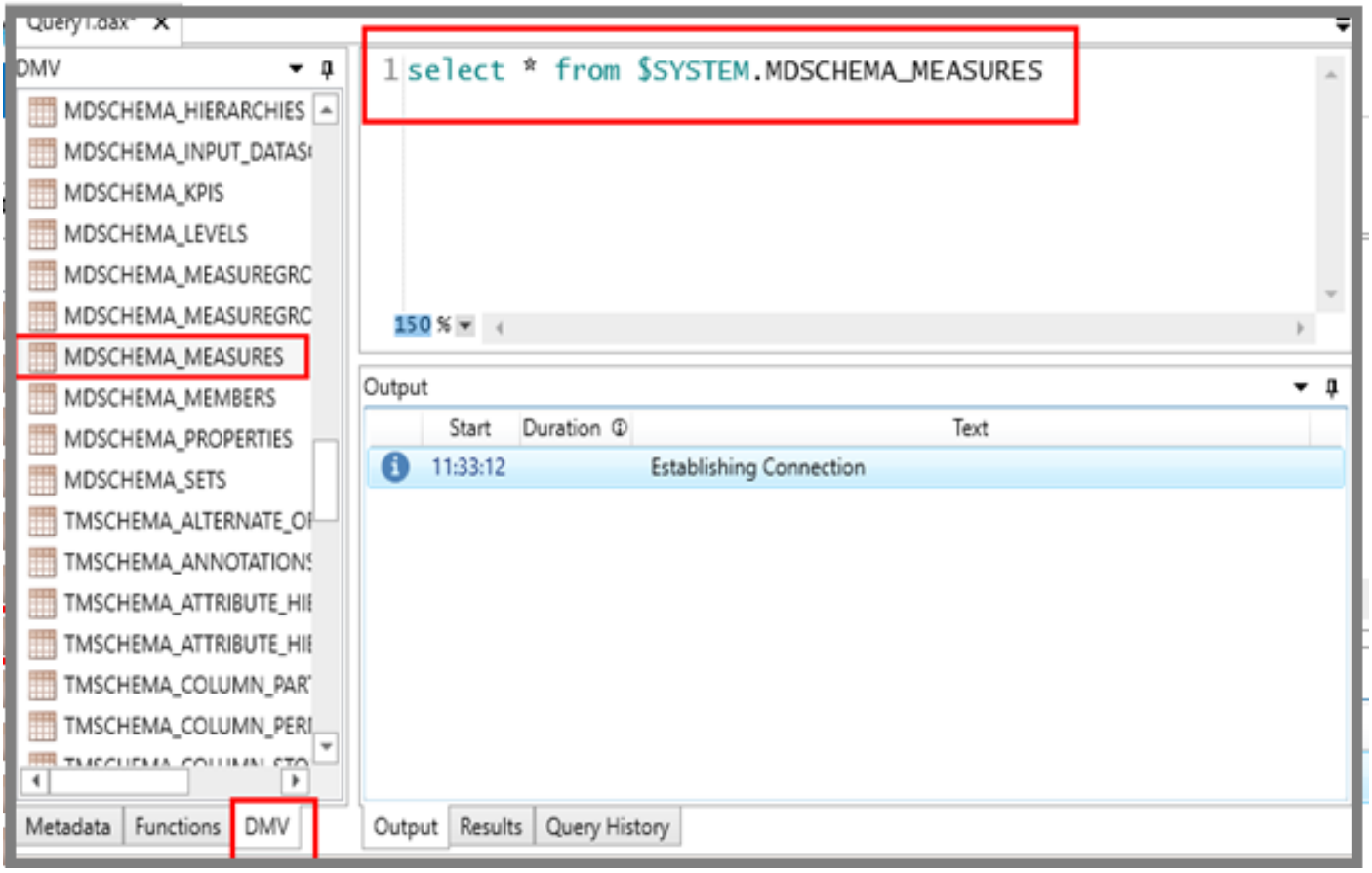
b) Performance improvement of DAX queries using Query and Cache plans.

DAX STUDIO AND GETTING STARTED

1. This is the list of tables in your data model – it should be familiar to you
2. This is the query pane – it is where you write your queries
3. This is the run button to execute your query (you can also press F5).
4. This is the default output pane – where you will see the results of your query
5. You can change the default output from the output pane (4) to various other alternatives including Excel or a file (CSV or TXT).
6. Once you write your query in the query pane (2), you can click this button to use the DAX Formatter service to format the query directly in the query pane so it is easier to read.
7. The server timings button is used for performance testing – more on that later
8. The connect button allows you to repoint DAX studio to a different data model.
9. Down the bottom of the page you can change from the list of tables to some of the other tabs including Functions (to help you write DAX) and DMV (Dynamic Management Views).
10. DMVs are a set of technical queries that will return you information about your data model.

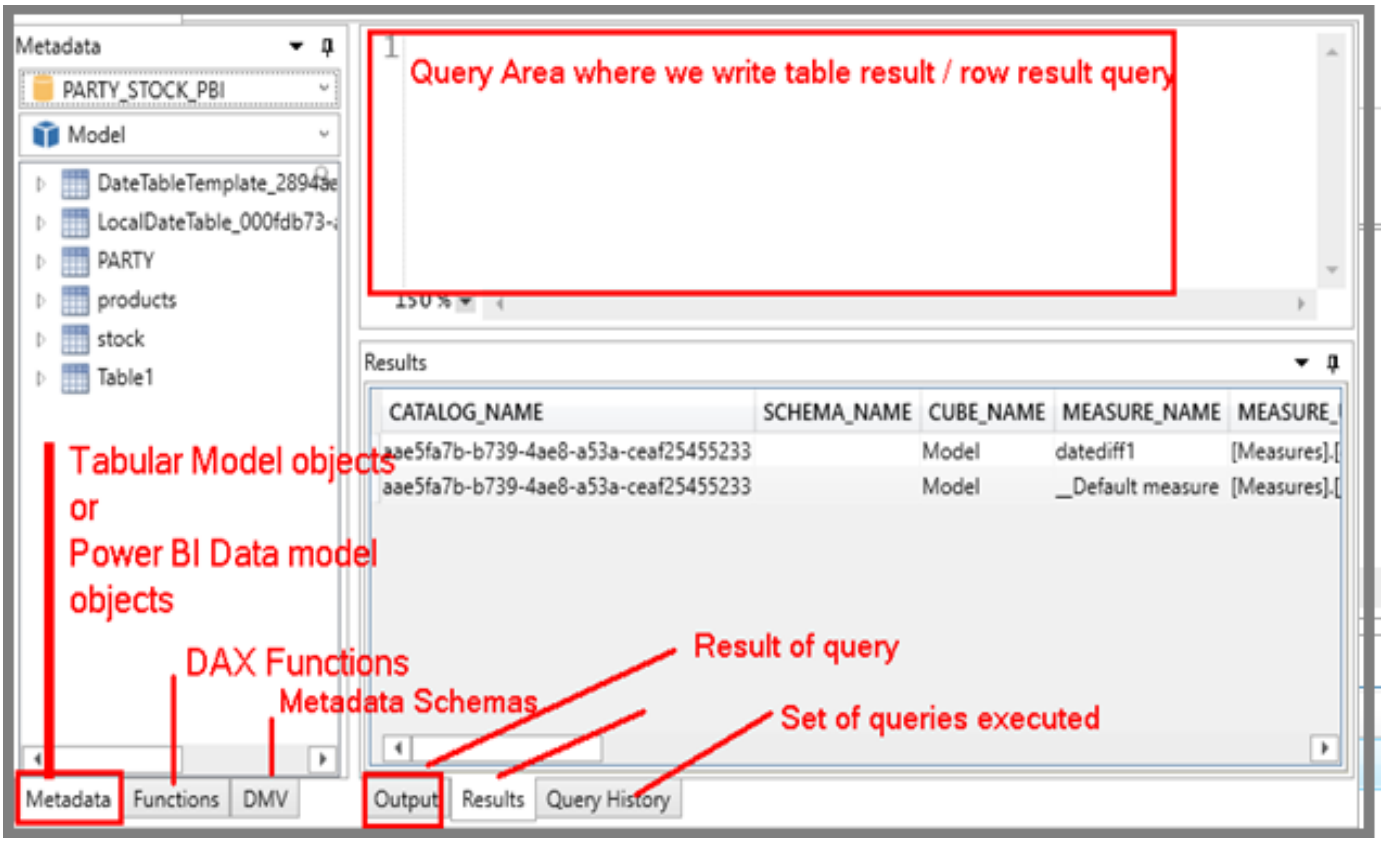


PRACTICAL: Goto DMV→MDSCHEMA_MEASURES



Note: You can use the below query to see all the measures

```
SELECT
  MEASUREGROUP_NAME,
  MEASURE_NAME,
  EXPRESSION
from $SYSTEM.MDSCHEMA_MEASURES
where MEASURE_AGGREGATOR = 0
order by MEASUREGROUP_NAME
```



Queries on Data Model:

1. EVALUATE
   (
   'FactPayments'
)
   Retrives party table data

2. EVALUATE
   (
   VALUES(FactPayments[CourseID])
)
   To bring Gender column data

3. EVALUATE
   (
   row("Total DiscountFee", sum(FactPayments[Discount_Fee]))
)
   Single row return

4. EVALUATE
   (
   summarize
   (
   FactPayments,
   FactPayments[ModeID]
)
)
   Desc: Group on ModeID

5.
```
EVALUATE
(
summarize
(
FactPayments,
FactPayments [LocationID],
FactPayments [ModeID]
)
)
```
Desc: Location and Mode group

6.
```
EVALUATE
(
summarize
(
FactPayments,
FactPayments [LocationID],
FactPayments [ModeID]
)
)
ORDER BY FactPayments [LocationID] desc
```

Group and Order

7.
```
EVALUATE
(
filter(FactPayments, FactPayments [Discount_Fee]>12000)
)
```
8.
```
EVALUATE
(
filter(FactPayments,
or(FactPayments [Discount_Fee]=12000,
FactPayments [Discount_Fee]=13000)
)
)
```
9.
```
EVALUATE
(
filter(FactPayments,
and(FactPayments [Discount-Fee]=12000,
FactPayments [LocationID]="HYD")
)
)
```

10.
```
EVALUATE
(

filter(
filter(FactPayments,
and(FactPayments [Dicount_Fee]=12000,
FactPayments [LocationID]="HYD")
), FactPayments [ModeID]="Online")
)
EVALUATE
(
TOPN(4,
summarize(FactPayments,FactPayments[CourseID],"Total",
sum(FactPayments[Discount_Fee]),"Average",AVERAGE(FactPayments[Discount_Fee])),
[Total],DESC)
)
ORDER BY [Total] Desc
```

Note:

Connect to Tabular Model→ Import Option

Modeling→New Table→ Write the below expression

```
Top rows = TOPN(5,'Model','Model'[DimProduct.EnglishProductName],DESC)
```

13.

```
EVALUATE
(
ADDCOLUMNS
(
SUMMARIZE
(
FactPayments,
FactPayments [LocationID],
FactPayments [ModeID],
"Company code",21000,
"Sum of income", sum(FactPayments[Discount_Fee])
), "year", 2019, "Avg Fee" , AVERAGE(FactPayments[Discount_Fee])
)
)
```

14.
```
EVALUATE
(
SAMPLE(5,'DImSTUDENT',DimStudent[FST_NAME],1)
)
```
Note: 1—ASC order

15.
```
EVALUATE
(
SAMPLE(5,'DImSTUDENT',DimStudent[FST_NAME],1,DimStudent[CREATED_BY],1)
)
```

16.

```
EVALUATE
(
SAMPLE(
10,
DimDate,
RELATED(FactPayments[Date]),1
)
)
```

17.

Displaying from a specific row

```
EVALUATE
(
'FactPayments'
)
ORDER BY
FactPayments[CourseID] DESC
START AT "Teradata-C"
```