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BSSE 1003



Orion Informatics Ltd

Company Overview

Founded in 1999

Outsourcing based software developing entity

Provides global software solution

35-40 developers

Company Overview



Financial Systems

We specialize in buliding, provisioning and customizing financial software for large enterprises.



Regulatory Software

We build regulatory compliance systems. We have helped to build market leading regulatory systems in North America.



Blockchain based services

We also provide service to build blockchain based systems, provide support to existing systems to be converted into blockchain based systems.



ERP

We provide ERP systems to enterprises. We facilitate the process of installing, customizing massive scale leading ERP systems.

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ERP

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Working Experience

Online Office

Flexible working hour

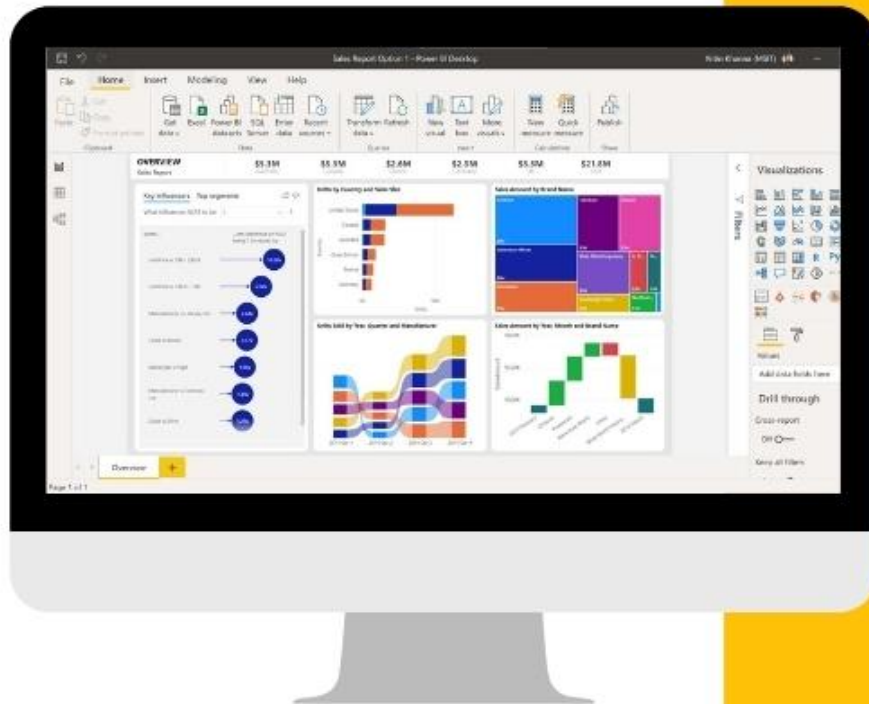
No restricted deadlines

Friendly and Co-operative

Appreciation & Gratitude



Technology



Power BI

What is Power BI?



A data analytics tool

Data modeling & Visualizing tool

Report building utility



Power BI



Power BI



500+
connectors

Prepare
data

Create report &
Share



No Projects



R & D Work



Power BI



R & D
Work

Learning phase

Dealing with data from different
sources

Power Query

Data Visuals: Charts,
Graphs, Maps etc.



Data Transformation

User Interface

DAX (**D**ata **A**nalysis **E**xpression)

M formula language



Data Transformation

DAX - Data Analysis Expression

The screenshot shows the DAX formula bar in Power BI. The 'Table tools' tab is active. The name of the new table is 'NewTable1'. The DAX expression is as follows:

```
1 NewTable1 = GENERATE (
2     SUMMARIZE ( Table1, Table1[Criteria], Table1[Amount] ),
3     VAR criteria_ =
4         CALCULATE ( DISTINCT ( Table1[Criteria] ) )
5     VAR month_ =
6         CALCULATE ( DISTINCT ( Table1[Month] ) )
7     VAR amount_ = CALCULATE ( DISTINCT ( Table1[Amount] ) )
8     RETURN
9         GENERATESERIES ( 1, amount_/10
10             //IF ( criteria_ = "Up", month_, 1 ),
11             //IF ( criteria_ = "Up", 12, month_ )
12         )
13     )
14     \\If ( criteria_ = "Up", 12, month_ )
15     \\If ( criteria_ = "Up", month_, 1 )
16     GENERATESERIES ( 1, amount_/10
17     RETURN
18     VAR amount_ = CALCULATE ( DISTINCT ( Table1[Amount] ) )
```



Power Query

M
formula
language

map - Power Query Editor

File Home Transform Add Column View Tools Help

Advanced Editor

State_Branch_density

Display Options ?

```
1 let
2     Source = Sql.Databases("DESKTOP-FOIBKD9"),
3     Task2 = Source{[Name="Task2"]}[Data],
4     dbo_State_Branch = Task2{[Schema="dbo",Item="State_Branch"]}[Data],
5     #"Added Custom" = Table.AddColumn(dbo_State_Branch, "Location", each [State]&"", USA"),
6     #"Invoked Custom Function" = Table.AddColumn(#"Added Custom", "geo", each Query1([Location])),
7     #"Removed Columns" = Table.RemoveColumns(#"Invoked Custom Function",{"geo"}),
8     #"Renamed Columns" = Table.RenameColumns(#"Removed Columns",{{"Location", "address"}}),
9     #"Invoked Custom Function1" = Table.AddColumn(#"Renamed Columns", "bingLat", each bingLat([address])),
10    #"Expanded bingLat" = Table.ExpandTableColumn(#"Invoked Custom Function1", "bingLat", {"Latitude", "Longitude"}, {"bingLat.Latitude", "bingLat.Longitude"}),
11    #"Renamed Columns1" = Table.RenameColumns(#"Expanded bingLat",{{"bingLat.Longitude", "Longitude"}, {"bingLat.Latitude", "Latitude"}}),
12    #"Added lats" = Table.AddColumn(#"Renamed Columns1", "Lats", each List.Numbers([Latitude]-[Branch]*.01, [Branch], .02)),
13    #"Added lngs" = Table.AddColumn(#"Added lats", "Lngs", each List.Numbers([Longitude]-[Branch]*.01, [Branch], .02)),
14    #"Merged latlngs" = Table.AddColumn(#"Added lngs", "LatLngs", each Table.FromColumns({[Lats], [Lngs]})),
15    #"Expanded Custom" = Table.ExpandTableColumn(#"Merged latlngs", "LatLngs", {"Column1", "Column2"}, {"Custom.Column1", "Custom.Column2"}),
16    #"Removed Columns1" = Table.RemoveColumns(#"Expanded Custom",{"Lats", "Lngs"}),
17    #"Removed Other Columns" = Table.SelectColumns(#"Removed Columns1",{"Custom.Column2", "Custom.Column1", "address"}),
18    #"Renamed Columns2" = Table.RenameColumns(#"Removed Other Columns",{{"Custom.Column2", "Longitude"}, {"Custom.Column1", "Latitude"}})
19
20
21 in
22     #"Renamed Columns2"
```

✓ No syntax errors have been detected.

Done Cancel



Data Visualization

Painter

Get data

Excel workbook

Power BI datasets

SQL Server

Enter data

Dataverse

Recent sources

Data

Transform data

Refresh

Queries

New visual

Text box

More visuals

Insert

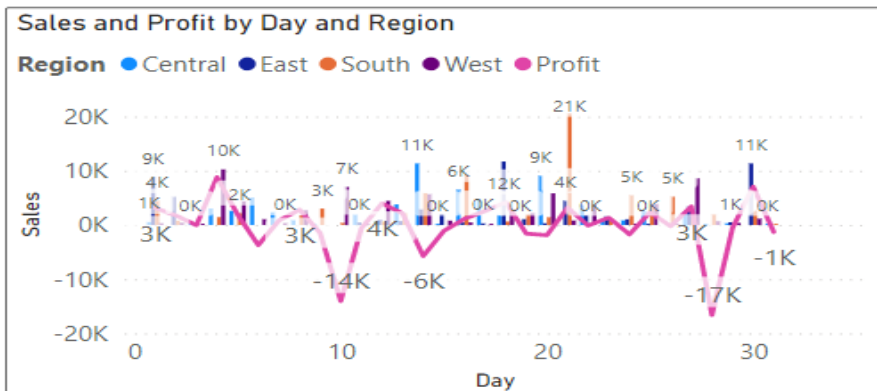
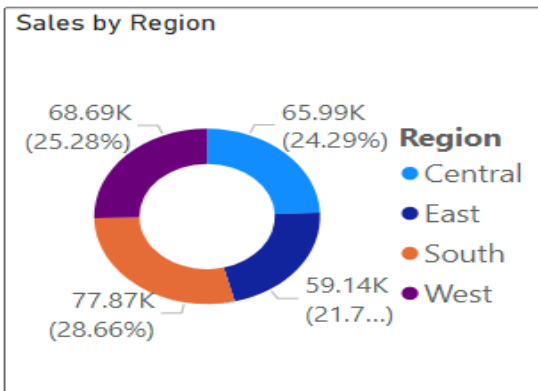
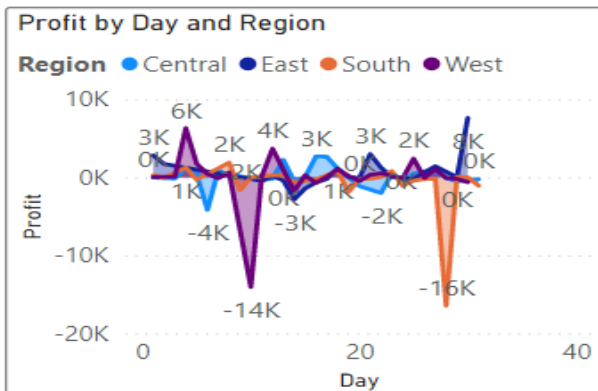
New measure

Quick measure

Calculations

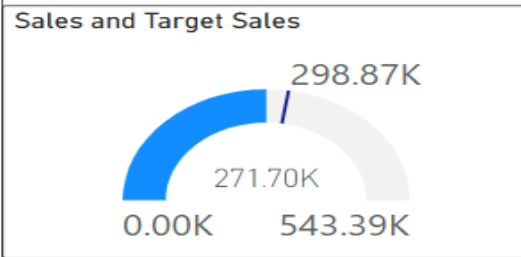
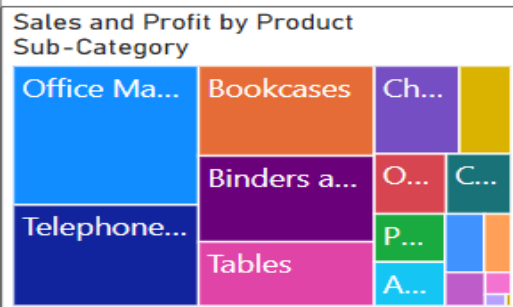
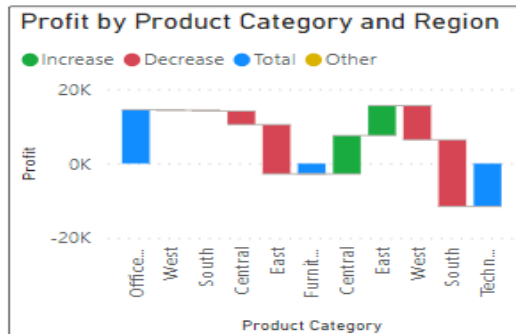
Sensitivity

Sensitivity



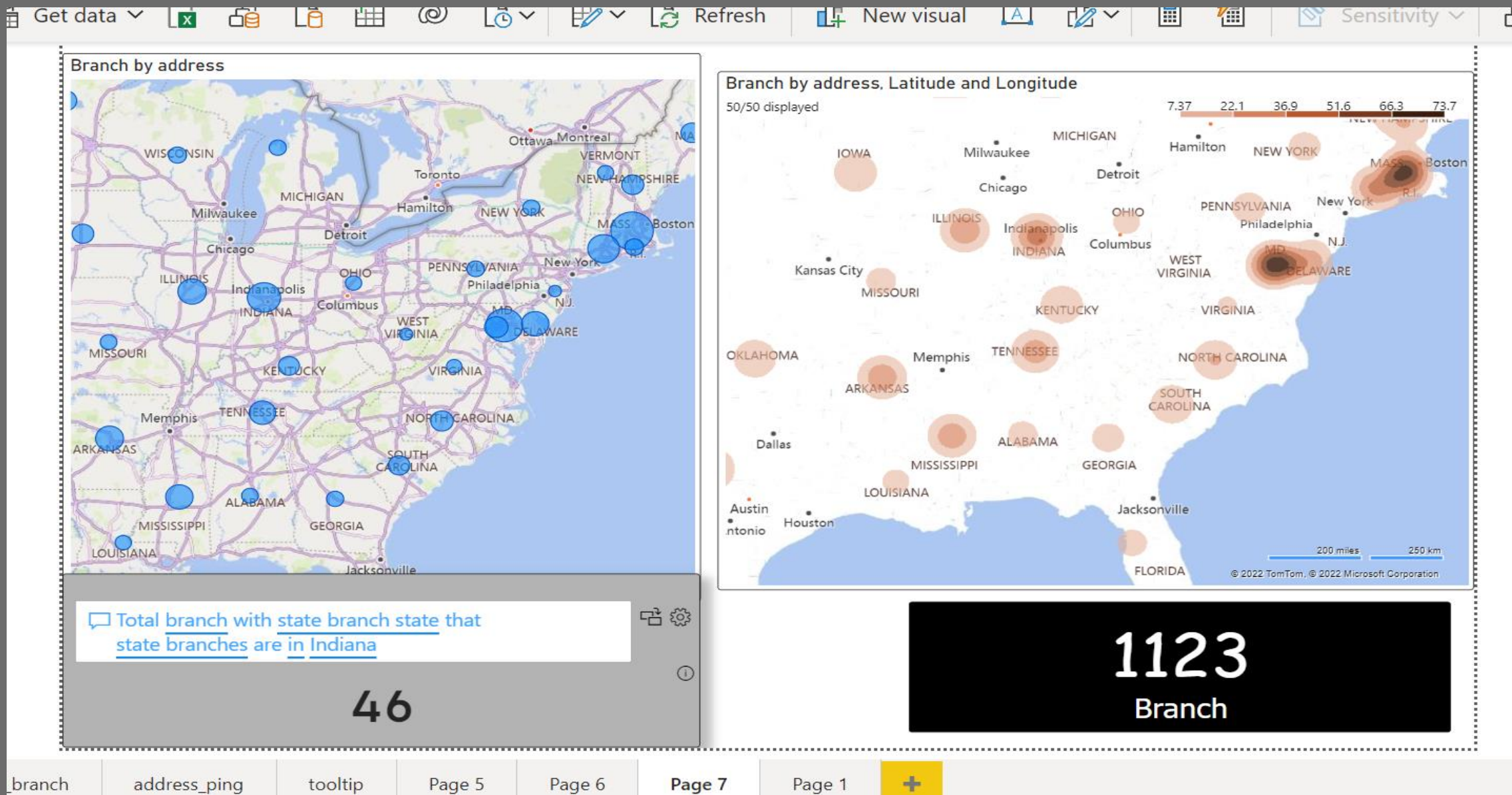
Order Date

1/1/2015 6/30/2015





Data Visualization





Soft Skills

Communication skill



Time management



Q & A

Thank

you

Don

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