Sql Server Reporting Services

Lesson 5: Building Report Model

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Lesson Objectives

- ➤ **Creating Report model**
  - – Adding data source to Report Model
  - – Adding data source view
  - – Adding Report Model through wizard
- ➤ **Reviewing Report Model**
- ➤ **Deploying report on server**

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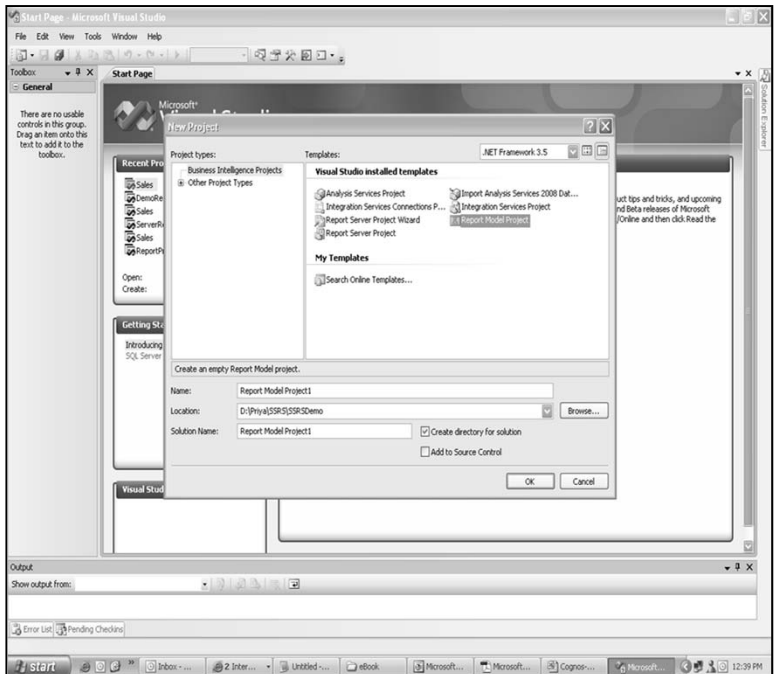
5.1: Creating Report model

Creating Report model

➢ **Report models are used to deploy ad hoc reports to report server.**

➢ **It is an intermediate layer between data source and business users.**

➢ **With this layer set in place, user does not need to know any programming language to query a database for building reports on that.**

➢ **To create report model, data source and data source view (DSV) is required for connection information and description of data structure respectively.**

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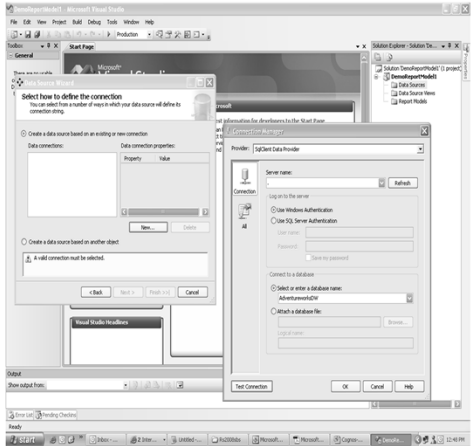Speed.Agility.Imagination

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5.1 : Creating Report model

Adding Data Source to Report Model

- Adding data source gives database connection and authentication information for accessing database.
- Only one data source is used for each report model.

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To add data source to Report Model:
1. Create a new project as Report Model Project in Microsoft Sql Server 2008 BI Development Studio, name it as ResellerSales.
2. Right click on Data Sources folder and select Add New Data Source and name it as Ds_AdventureworksDW.
3. Select server name as Localhost and database as AdventureworksDW.
4. Test the connection and click on Finish in the wizard.
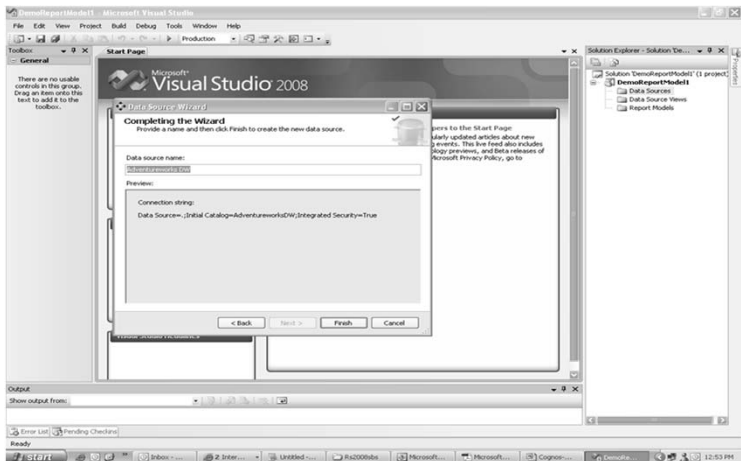
5.1 : Creating Report model
Adding Data Source to Report Model

- ➢ **To define structure of data, we need to add data source view to report model.**
- ➢ **You can add only tables and views to DSV.**
- ➢ **Multiple tables van be added as named query like joins.**
- ➢ **Changes made in DSV do not affect source data.**
- ➢ **Its just a logical structure of actual data.**

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To create DSV:
1. Open Solution Explorer, right click on Data Source View folder, select Add New Data Source View.
2. Select data source as Ds_AdventureworksDW and select tables like Employee, Time, Product, SalesTerritory, FactResellerSales.
3. Click Next and then click Finish.
4. Double click on DSV file to view relationship amongst tables.
5. Select Product table and create new named query.
6. Add tables namely DimProductCategory and DimProductSubCategory.
7. Click Add and then Close.
8. In the Diagram pane, assign alias name of column EnglishProductName to **Product,** EnglishProductSubCategoryName to **SubCategory** and EnglishProductCategoryName to **Category**.
9. Create new named query and click OK.

5.1 : Creating Report model

Adding Data Source View to Report Model

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5.1 : Creating Report model
Adding Data Source View to Report Model
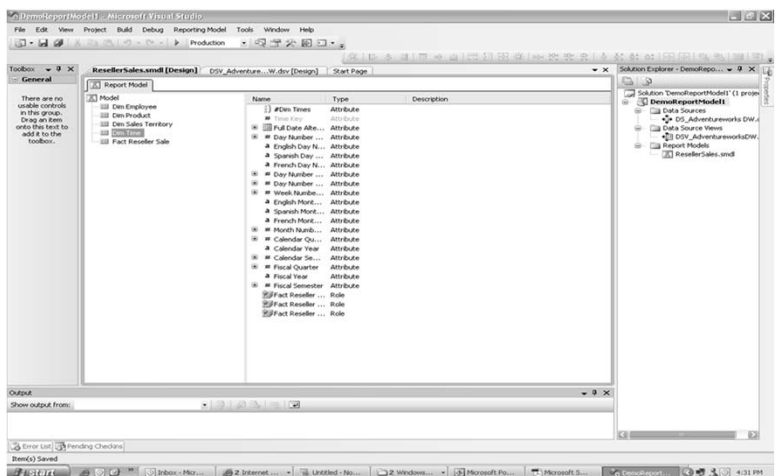
5.1 : Creating Report model
Using Report Model wizard

➢ **Report Model wizard allows to select DSV to show cardinality information and model statistical data.**

➢ **It also stores numbers of instances of columns.**

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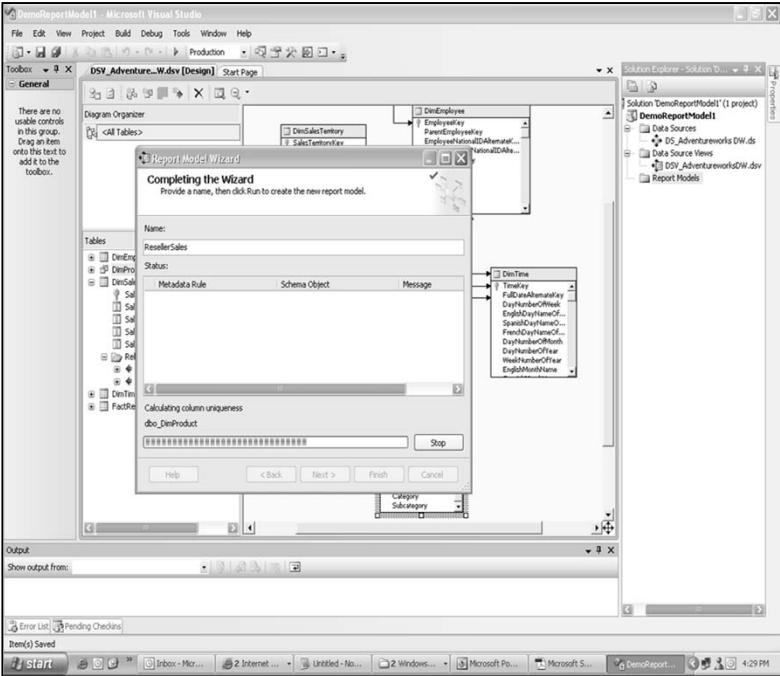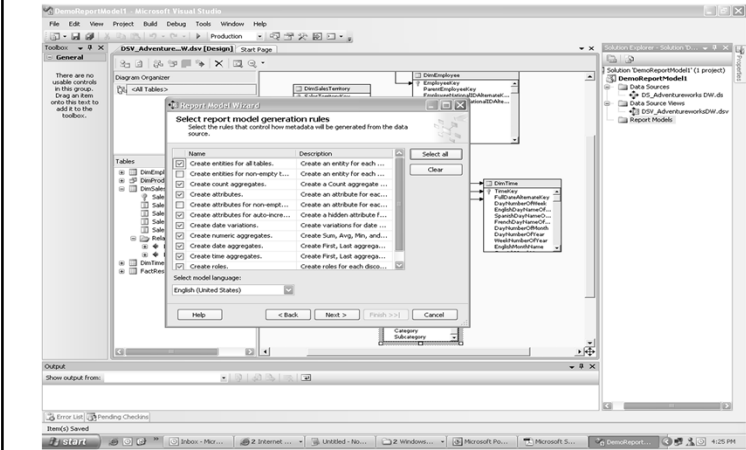
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To run Report Model Wizard:
1. In Solution explorer, right click Report Model folder and click on Add New Report Model.
2. Select DSV file.
3. Select default generation rules and update statistics are selected on Model Statistics.
4. Name the model as ResellerSales and run the wizard.
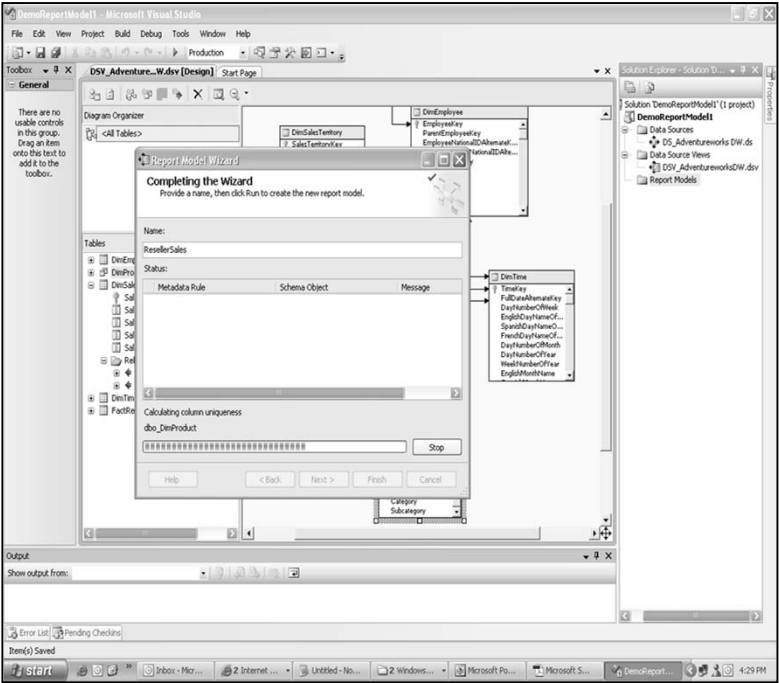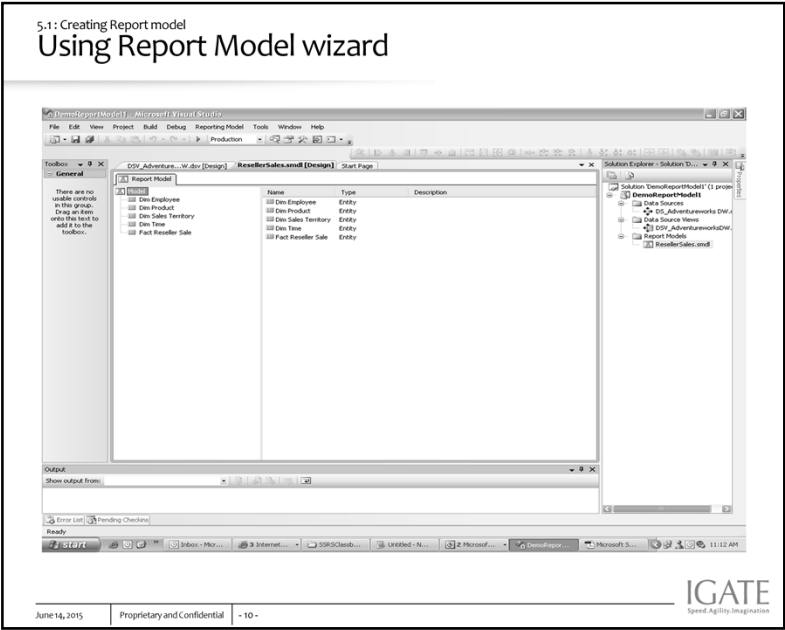5. Click on Finish to complete wizard.

5.1 : Creating Report model
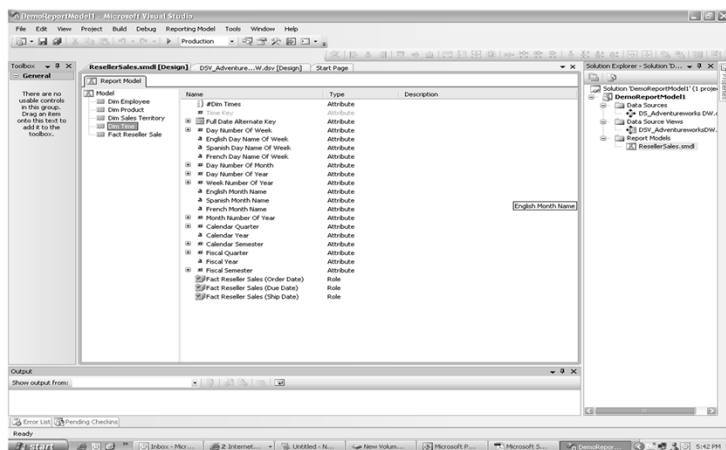## Using Report Model wizard

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5.1 : Creating Report model
Using Report Model wizard

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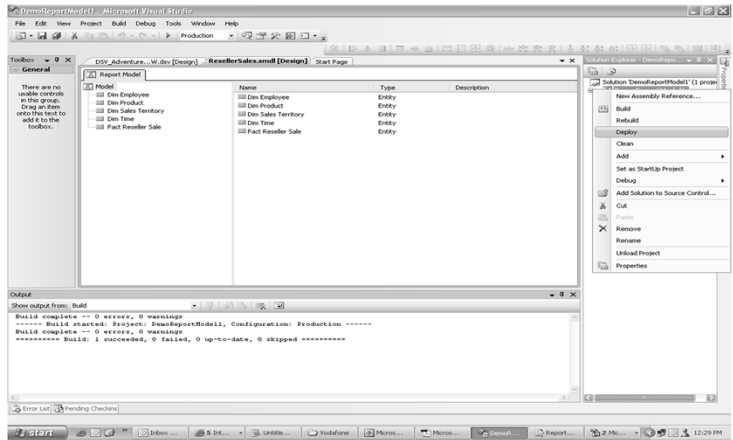
5.2: Reviewing Report Model
Reviewing Report Model

To review report model:
1. Open layout of report model designer.
2. Click on tree view, select table Time.
3. In detail view, expand Full Date Alternate Key attribute.

5.3: Deploying report on server
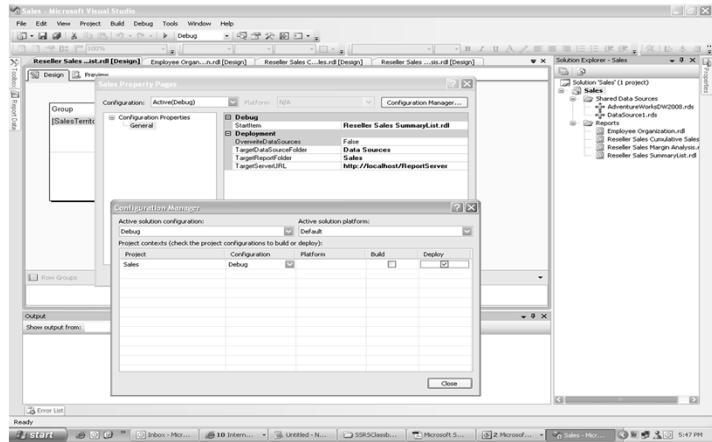## Deploying report on server

To deploy report model:
1. In Solution explorer, right click on report model, select Properties.
2. Click on Deploy.

5.3: Deploying report on server
Deploying report on server

To deploy report model:
1. Right click Project & select properties.
    - Assign following parameter values as mentioned.
    - TargetDataSourceFolder = Data Sources
    - TargetReportFolder = Sales
    - TargetServerURL = http://atrgoracle/ReportServer

2. Open the link http://atrgoracle/Reports to view all the deployed
   reports with data sources.

Summary

> ➢ **Report model defines a complete structure for a report according to specifications.**
> ➢ **Report model acts as a template for developing new reports from it.**

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