

Using Parameters

Developing more flexible reports

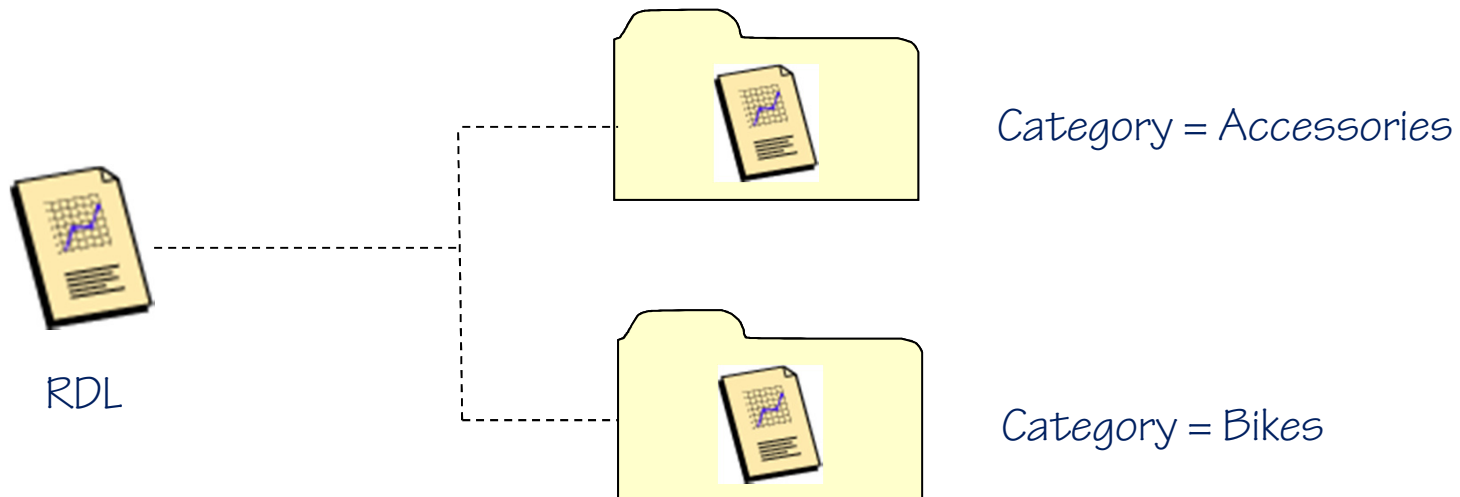


Overview

- **Linked Reports**
- **Subreports and Drillthrough Reports**
- **Parameters in Expressions**
- **Query Parameters**
- **Cascading Parameters**

Linked Reports

- Build one report and deploy to report server (native mode only)
- Configure multiple versions as linked reports with separate properties
 - Execution
 - Parameter
 - Subscription
 - Security



Subreports and Drillthrough Reports

- **Pass a value to target parameter**
 - Default scope – field reference or custom expression
 - Report parameter
 - Selected textbox value (Drillthrough report only)

Name	Value	Omit
SalesTerritoryGroup	[SalesTerritoryGroup]	<input type="checkbox"/>
SalesTerritoryCountry	[SalesTerritoryCountry]	<input type="checkbox"/>
SalesTerritoryRegion	[SalesTerritoryRegion]	<input type="checkbox"/>

Parameter must exist
in target report

Value to pass to
parameter

Applicable to
drillthrough report
only

Parameters in Expressions

- **Single-value parameter properties**

```
=Parameters!SalesTerritoryGroup.Value
```

```
=Parameters!SalesTerritoryGroup.Label
```

- **Multi-value parameter properties**

```
=Parameters!SalesTerritoryRegion.Value(n)
```

```
=Parameters!SalesTerritoryRegion.Label(n)
```

```
=Parameters!SalesTerritoryRegion.IsMultiValue
```

```
=Parameters!SalesTerritoryRegion.Count
```

```
=Join(Parameters!SalesTerritoryRegion.Value, ", ")
```

Query Parameters

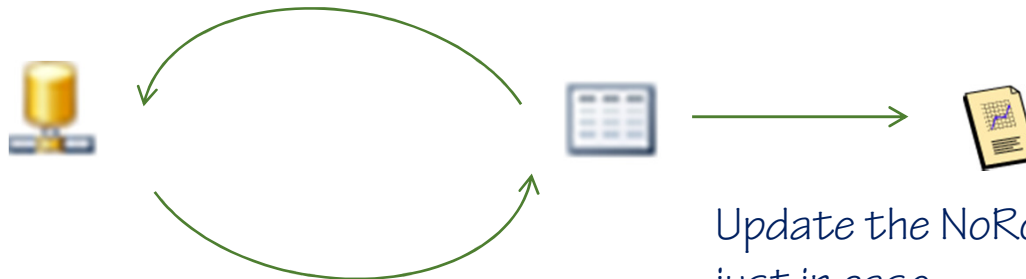
- Pass to data source
 - WHERE clause in SELECT statement

```
SELECT * FROM myTable  
WHERE myField1 = @Parameter1 AND myField2 IN @Parameter2
```

- Stored procedure parameters

```
EXEC spMyProcedure @Parameter1, @Parameter2
```

- Re-execute query when parameter value changes

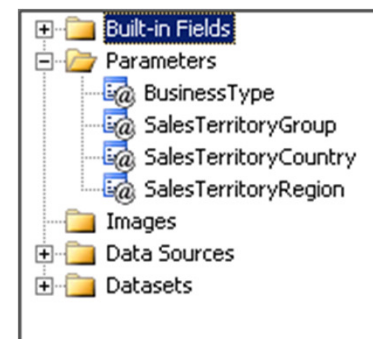


Cascading Parameters

- Create a dataset for the dynamic (dependent) parameter
- Add a query parameter to filter results based on primary parameter's selection

```
SELECT DISTINCT SalesTerritoryCountry  
FROM DimSalesTerritory  
WHERE SalesTerritoryGroup IN @SalesTerritoryGroup)
```

- Place parameters in sequential order



Summary

- **Linked Reports**
 - “Virtual copies” of base report, hidden parameters for controlling filters
- **Subreports and Drillthrough Reports**
 - Receive input values from parent report
- **Query Parameters**
 - WHERE clause, stored procedure parameter
- **Cascading Parameters**
 - Report parameter dependency on another parameter

References

- **Using Parameters to Connect to Other Reports**
 - [http://msdn.microsoft.com/en-us/library/aa337167\(v=SQL.100\).aspx](http://msdn.microsoft.com/en-us/library/aa337167(v=SQL.100).aspx)
- **Using Query Parameters with Specific Data Sources**
 - [http://msdn.microsoft.com/en-us/library/aa337223\(v=SQL.100\).aspx](http://msdn.microsoft.com/en-us/library/aa337223(v=SQL.100).aspx)
- **Creating Linked Reports**
 - <http://msdn.microsoft.com/en-us/library/ms155889.aspx>