

Sample RDL File for Report Builder Parameters

Here's a complete sample RDL file with parameters and dataset setup:

Sample Report.rdl

xml

```
<?xml version="1.0" encoding="utf-8"?>

<Report xmlns="http://schemas.microsoft.com/sqlserver/reporting/2005/01/reportdefinition"
        xmlns:rd="http://schemas.microsoft.com/SQLServer/reporting/reportdesigner">

  <DataSources>

    <DataSource Name="RedshiftDataSource">

      <ConnectionProperties>

        <DataProvider>SQL</DataProvider>

        <ConnectionString>Data Source=your-redshift-cluster.amazonaws.com;Initial
Catalog=your_database</ConnectionString>

        <IntegratedSecurity>>false</IntegratedSecurity>

      </ConnectionProperties>

      <rd:DataSourceID>your-data-source-id</rd:DataSourceID>

    </DataSource>

  </DataSources>

  <ReportParameters>

    <!-- Date Parameter Example -->

    <ReportParameter Name="StartDate">

      <DataType>DateTime</DataType>

      <DefaultValue>

        <Values>

          <Value>=Today().AddDays(-30)</Value>

        </Values>

      </DefaultValue>

      <Prompt>Start Date</Prompt>

      <AllowBlank>>true</AllowBlank>

    </ReportParameter>

  </ReportParameters>

</Report>
```

```
</ReportParameter>
```

```
<ReportParameter Name="EndDate">
```

```
  <DataType>DateTime</DataType>
```

```
  <DefaultValue>
```

```
    <Values>
```

```
      <Value>=Today()</Value>
```

```
    </Values>
```

```
  </DefaultValue>
```

```
  <Prompt>End Date</Prompt>
```

```
  <AllowBlank>true</AllowBlank>
```

```
</ReportParameter>
```

```
<!-- Text Parameter Example -->
```

```
<ReportParameter Name="Department">
```

```
  <DataType>String</DataType>
```

```
  <AllowBlank>true</AllowBlank>
```

```
  <Prompt>Department</Prompt>
```

```
</ReportParameter>
```

```
<!-- Multi-Value Parameter Example -->
```

```
<ReportParameter Name="Regions">
```

```
  <DataType>String</DataType>
```

```
  <AllowMultiple>true</AllowMultiple>
```

```
  <Prompt>Select Regions</Prompt>
```

```
  <AvailableValues>
```

```
    <DataSetReference>
```

```
      <DataSetName>RegionsDataset</DataSetName>
```

```
      <ValueField>region_name</ValueField>
```

```
      <LabelField>region_name</LabelField>
```

```
    </DataSetReference>
```

</AvailableValues>

<DefaultValue>

<Values>

<Value>North</Value>

<Value>South</Value>

</Values>

</DefaultValue>

</ReportParameter>

</ReportParameters>

<DataSets>

<!-- Dataset for parameter values (dropdown) -->

<DataSet Name="RegionsDataset">

<Query>

<DataSourceName>RedshiftDataSource</DataSourceName>

<CommandText>SELECT DISTINCT region_name FROM region_table ORDER BY
1</CommandText>

</Query>

<Fields>

<Field Name="region_name">

<DataField>region_name</DataField>

</Field>

</Fields>

</DataSet>

<!-- Main Dataset with Parameterized Query -->

<DataSet Name="MainDataset">

<Query>

<DataSourceName>RedshiftDataSource</DataSourceName>

```
<CommandText>SELECT
sales_date,
department,
region,
product_id,
sales_amount
FROM sales_view
WHERE 1=1

AND (@StartDate IS NULL OR sales_date >= @StartDate)
AND (@EndDate IS NULL OR sales_date <= @EndDate)
AND (@Department IS NULL OR department = @Department)
AND (@Regions IS NULL OR region IN (SELECT value FROM SPLIT_TO_TABLE(@Regions, ',')))
ORDER BY sales_date DESC</CommandText>
```

```
</Query>
```

```
<Fields>
```

```
<Field Name="sales_date">
```

```
<DataField>sales_date</DataField>
```

```
</Field>
```

```
<Field Name="department">
```

```
<DataField>department</DataField>
```

```
</Field>
```

```
<Field Name="region">
```

```
<DataField>region</DataField>
```

```
</Field>
```

```
<Field Name="product_id">
```

```
<DataField>product_id</DataField>
```

```
</Field>
```

```
<Field Name="sales_amount">
```

```
<DataField>sales_amount</DataField>
```

```
</Field>
```

```
</Fields>
```

</DataSet>

</DataSets>

<!-- Simple table to display results -->

<Body>

<ReportItems>

<Tablix Name="SalesTable">

<TablixBody>

<TablixColumns>

<TablixColumn>

<Width>1in</Width>

</TablixColumn>

<TablixColumn>

<Width>1in</Width>

</TablixColumn>

<TablixColumn>

<Width>1in</Width>

</TablixColumn>

<TablixColumn>

<Width>1in</Width>

</TablixColumn>

</TablixColumns>

<TablixRows>

<TablixRow>

<Height>0.25in</Height>

<TablixCells>

<TablixCell>

<CellContents>

<Textbox Name="SalesDateHeader">

<Value>Sales Date</Value>

```
</Textbox>
</CellContents>
</TablixCell>
<TablixCell>
  <CellContents>
    <Textbox Name="DepartmentHeader">
      <Value>Department</Value>
    </Textbox>
  </CellContents>
</TablixCell>
<TablixCell>
  <CellContents>
    <Textbox Name="RegionHeader">
      <Value>Region</Value>
    </Textbox>
  </CellContents>
</TablixCell>
<TablixCell>
  <CellContents>
    <Textbox Name="SalesAmountHeader">
      <Value>Sales Amount</Value>
    </Textbox>
  </CellContents>
</TablixCell>
</TablixCells>
</TablixRow>
<TablixRow>
  <Height>0.25in</Height>
  <TablixCells>
    <TablixCell>
      <CellContents>
```

```
<Textbox Name="SalesDateValue">
  <Value>=Fields!sales_date.Value</Value>
</Textbox>
</CellContents>
</TablixCell>
<TablixCell>
  <CellContents>
    <Textbox Name="DepartmentValue">
      <Value>=Fields!department.Value</Value>
    </Textbox>
  </CellContents>
</TablixCell>
<TablixCell>
  <CellContents>
    <Textbox Name="RegionValue">
      <Value>=Fields!region.Value</Value>
    </Textbox>
  </CellContents>
</TablixCell>
<TablixCell>
  <CellContents>
    <Textbox Name="SalesAmountValue">
      <Value>=FormatCurrency(Fields!sales_amount.Value)</Value>
    </Textbox>
  </CellContents>
</TablixCell>
</TablixCells>
</TablixRow>
</TablixRows>
</TablixBody>
<DataSetName>MainDataset</DataSetName>
```

```
</Tablix>

</ReportItems>

</Body>
```

```
</Report>
```

Step-by-Step Setup Guide:

1. Creating Parameters (UI Method):

1. Open Report Builder
2. **Report Data pane** → Right-click **Parameters** → **Add Parameter**
3. Fill in:
 - **Name:** StartDate
 - **Data type:** DateTime
 - **Allow blank value:** ✓ Yes
 - **Default values:** Specify values → =Today().AddDays(-30)

2. Dataset with Parameters:

1. **Report Data pane** → Right-click **Datasets** → **Add Dataset**
2. Choose: **Use a dataset embedded in my report**
3. **Data source:** Select your Redshift connection
4. **Query type:** Text
5. Enter SQL with parameters:

sql

```
SELECT * FROM your_view
```

```
WHERE (@StartDate IS NULL OR date_column >= @StartDate)
```

3. Connecting Parameters to Dataset:

1. In **Dataset Properties** → **Parameters** tab
2. Add mapping:
 - **Parameter Name:** @StartDate
 - **Parameter Value:** [@StartDate]
 - **Parameter Name:** @Department
 - **Parameter Value:** [@Department]

Alternative: Using Expression Builder:

vb

```
= "SELECT * FROM sales_view WHERE 1=1 " &  
IIF(Parameters!StartDate.Value <> "",  
    " AND sales_date >= " & Format(Parameters!StartDate.Value, "yyyy-MM-dd") & "", "") &  
IIF(Parameters!EndDate.Value <> "",  
    " AND sales_date <= " & Format(Parameters!EndDate.Value, "yyyy-MM-dd") & "", "")
```

Quick Test RDL:

xml

```
<!-- Minimal working example -->  
  
<Report>  
  <DataSources>  
    <DataSource Name="DS1">  
      <ConnectionProperties>  
        <ConnectionString>your-connection-string</ConnectionString>  
      </ConnectionProperties>  
    </DataSource>  
  </DataSources>  
  
  <ReportParameters>  
    <ReportParameter Name="DeptParam">  
      <DataType>String</DataType>  
      <Prompt>Department</Prompt>  
    </ReportParameter>  
  </ReportParameters>  
  
  <DataSets>  
    <DataSet Name="DS1">  
      <Query>  
        <DataSourceName>DS1</DataSourceName>
```

```
<CommandText>SELECT * FROM employees WHERE department =  
@DeptParam</CommandText>
```

```
</Query>
```

```
</DataSet>
```

```
</DataSets>
```

```
</Report>
```

To Share the RDL:

1. Save as .rdl file
2. Send file to user
3. User opens in Report Builder
4. Updates connection string to their Redshift

Key Points:

- Parameters are defined in <ReportParameters> section
- In SQL, use @ParameterName
- In expressions, use Parameters!ParameterName.Value
- Multi-value parameters use IN clause with string splitting

This RDL file can be directly opened and modified in Report Builder!