



Business Intelligence & Reporting Tools (BIRT) Demonstration Script

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Classic Models Sample Data



- Company sells model automobiles
- Sample data available for download from
<http://www.eclipse.org/BIRT>
- BIRT v1.0.1
 - JDK 1.4.2, Runtime Eclipse 3.1, GEF 3.01, EMF 2.1
- MySQL database acts as data source

Classic Models Intranet Portal



- Product Catalog
 - Grouped by Product Category
- Stock Price of Classic Models
 - Uses a CSV file as a data source; one additional row defines the data type of each column
 - Groups data by Year and Month; for each month it draws a price and volume chart by day
- Employee Lookup
 - MySQL data source
 - Allows the user to search by last name and specify the first few characters of the last name
- Sales by office
 - Groups by office code and reports on the products sold, the amount sold and customer sold to
 - Pie chart summarizes sales by office
- Sales by product
 - Groups by product line
 - Lists qty in stock, total qty ordered
- Top selling products
 - Groups by product line
 - Lists in descending order of revenue by product line
- Sales invoice
 - For invoice order number presents customer details, order details, line items in the order
- Customer payments
 - Lists customers, their orders, the amount of each order and amount paid
- Account Managers
 - Lists employees and the customers they are assigned to

Top Selling Products Report Components



- Header (Grid)
 - Image, Text
- Pie Chart summary of revenue by product line
 - Data Set grouped by Product Line with Total Revenue for each line
- List of products sorted in decreasing order of revenue generated
 - Data Set grouped by Product Name, Total Revenue for each line
- Styles for various elements (table header, body, etc.)

Steps in BIRT Report Creation



1. Create a BIRT Project
2. Create a New Report
3. Specify a Data Source
4. Define Data Sets
5. Define the Report Layout
6. Format the Report
7. Deploy the Report to Tomcat



1. Create a BIRT Project

1. Bring up Eclipse
2. Specify location in file system of workspace
3. File -> New -> Project
4. Select Business Intelligence and Reporting Tools-> Report Project
5. Give project name (<<< Fill In project name >>>)

2. Create a New Report



1. File -> New -> Report
2. Select project name (parent folder)
3. Specify report file name (.rptdesign file)
4. Press Next
5. Select Report Template



3. Specify a Data Source

1. Select Data Explorer View
2. Right mouse click on Data Sources; select New Data Source
3. Select JDBC Data Source
4. Specify Data Source Name (<<< Fill In Name >>>)
 - `com.mysql.jdbc.Driver` (v3.1)
 - `jdbc:mysql://localhost/classicmodels`
 - `root` (no password)
5. Specify jar file for MySQL Connector J
6. Test connection

4. Define Data Sets



1. Select Data Explorer View
2. Right mouse click on Data Sets; select New Data Set
3. Specify Data Set Name; select Data Source
4. Specify SQL statement
5. Preview data

5. Define the Report Layout



- Grid for Header Elements
- Grid for Chart
- Table for Data Set

6. Format the Report



- Format header elements
- Define & apply table styles for header and body elements

7 Deploy to Tomcat



- Copy over .rptdesign file to webapps/BIRT
- Copy over MySQL jar files to webapps/BIRT/WEB-INF/lib
- Edit index.jsp file
- Test file