Assignment 8

Outcomes addressed in this activity:

Unit Outcomes:

- Discover the T-SQL queries needed to generate the proposed business Reports.
- Diagram in an ERD the database schema of the proposed business.
- Create the user Views corresponding to the proposed business Reports.
- Complete the business proposal for Part 1 of the final Team-Based Collaboration Project. Formulate the rationale for each of the proposed business Reports.

Course Outcomes:

IT350-5: Use a front-end application for displaying information generated in a MS SQL Server database. (Bloom Level 3: Application) (Assessed in Unit 10)

GEL-8.2: Use principles of sound reasoning. (Assessed in Unit 9)

General Information

The final Team-Based Collaboration Project assignment consists of three parts:

Part 1: Written Proposal (due at the end of Unit 9 by 12:00pm ET)
Part 2: Business Reports (due at the end of Unit 10 by 12:00pm ET)
  a) MS SQL Server Management Studio (queries and Views)
  b) MS Excel Workbook
Part 3: Verbal Communication (due at the end of Unit 10 by 12:00pm ET)

Assignment Instructions

Full directions are found in the Rubric icon below.

Part 1: Team-Based Collaboration business proposal presentation (50 points)

During this first part, you and your team will be submitting a document detailing 5 types of reports that management could use in his/her “fictitious” organization (of your own creation - any type of business) and that could help improve one or more business areas. For example, but not limited to, profitability,
market positioning, organizational collaboration. The write up must explain the rationale for each proposed report and include:

- the type of business,
- its market (product line),
- the structure of the organization,
- the number of employees,
- and any other element that you and your team believe important in order to meet the main objectives.

NOTE: ***You will be creating the proposed business reports (a.k.a. queries and Views) in MS SQL Server Management Studio (SSMS) as part of the requirements in Part 2 of the Team-Based Collaboration Project assignment. The second part is due at the end of Unit 10 by 12:00pm ET. Read Part 2 section below Part 1 for more details about the expected deliverables.

***Part 1 of the Team-Based Collaboration Project proposal is due at the end of Unit 9 by 12:00 pm ET.

The requirements for the proposed business Reports must meet the following criteria:

The proposal must
- Explain clearly the rationale for each of the proposed reports.
- Be original and not used prior by any other member of your team.
- Demonstrate a clear and positive impact on the fictitious organization.
- Illustrate the Mission and Vision Statements of the fictitious organization.
- Clear description about the objectives of each Report.
- Clear description about the benefits of each Report.

Directions for Submitting Part 1

For the narrative and other supporting information, compose your Team-Based Collaboration Project Part 1 assignment in a Microsoft Word document, with a title page, including screen shots as appropriate, submit the document following the naming convention: IT350_TeamBasedCollaboration_ReportProposals<Team Name>.doc (or docx) and have it submitted by the student in the Recorder role to the team’s designated area by the end of Unit 9 by 12:00pm ET.

Part 2: Business Reports (due at the end of Unit 10 by 12:00pm ET)

1. Creating the T-SQL queries and Views
Assignment Grading Rubric
Course: IT358 Unit: 8

Based on the proposed business reports in Part 1, use the AdventureWorks2012, Northwind, or pubs databases and create five Views of such reports. As a reminder, make sure that the reports meet the criteria in Part 1 and also the ones listed below.

The Views must comprise of:
- Multiple Join tables (in all Views)
- Subquery (in all Views)
- Aggregate functions (in at least 4 Views)
- CTE (in at least 1 View)
- Stored procedure (in at least 2 Views)

Directions for submitting Part 2:

In a MS Word document, submit the screenshots of each View using the same requirements as in the previous T-SQL assignments. Also, include the ERD snapshot of the proposed schema using MS Visio.

Use the following naming convention when submitting Part 2 of the assignment:

IT350_TeamBasedCollaboration_Reports<Team Name>.doc (or docx).

NOTE***: the purpose for the example below is only to demonstrate how to submit the T-SQL code, results set, and Views. In addition, you need to write a short description of what the View does. The rationale used in each of the proposed Views are not needed here since these shall be incorporated and submitted separately as Part 1 of the assignment (due at the end of Unit 9).

--Example of a View
--Short description: (what this View does)
IF OBJECT_ID('dbo.vw_Products') IS NOT NULL BEGIN
    DROP VIEW dbo.vw_Products;
END;
GO
CREATE VIEW dbo.vw_Products AS
    SELECT P.ProductID, P.Name, P.Color,
        P.Size, P.Style,
        H.StandardCost, H.EndDate, H.StartDate
    FROM Production.Product AS P
    INNER JOIN Production.ProductCostHistory AS H
    ON P.ProductID = H.ProductID;
GO
SELECT ProductID, Name, Color, Size, Style,
    StandardCost, EndDate, StartDate
FROM dbo.vw_Products;
2. Create the ERD MS Visio of the proposed schema
   - Submit a snapshot of the proposed schema using MS Visio.

3. Create the Reports
   - Follow the following steps to import your Views and create the Reports in MS Excel:

1. Open a New (blank) Workbook in MS Excel. Replace the default name of the worksheet (Sheet1) with an appropriate name according to the purpose of the View.
2. In the Ribbon, select DATA and then in the “Get External Data” group click on “From Other Sources” and select “From SQL Server.”

3. In the Data Connection Wizard screen, enter your SQL Server instance name and click Next.

4. In the dropdown list, select the database name and then the name of the View as shown. Click Next and then Finish.

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5. In the Import Data screen, leave the default as shown for the first View. Click OK.
Note: The team may earn 10 extra points if the Views:
1. are imported as Pivot Tables AND
2. incorporates a Pivot Chart AND
3. show the significance of the report objective(s).

NOTE: ***It is important to meet all these three criteria in at least one of the imported Views (Reports) in order to earn the 10 extra points.

6. A snapshot sample of the imported View is shown below.

<table>
<thead>
<tr>
<th>ProductID</th>
<th>Name</th>
<th>Color</th>
<th>Size</th>
<th>Style</th>
<th>StandardCost</th>
<th>EndDate</th>
<th>StartDate</th>
</tr>
</thead>
<tbody>
<tr>
<td>707</td>
<td>Sport-100 Helmet, Red</td>
<td>Red</td>
<td></td>
<td></td>
<td></td>
<td>12.0276</td>
<td>7/1/2005</td>
</tr>
<tr>
<td>709</td>
<td>Sport-100 Helmet, Black</td>
<td>Black</td>
<td></td>
<td></td>
<td></td>
<td>12.0276</td>
<td>6/30/2005</td>
</tr>
<tr>
<td>709</td>
<td>Sport-100 Helmet, Black</td>
<td>Black</td>
<td></td>
<td></td>
<td></td>
<td>13.0782</td>
<td>6/30/2007</td>
</tr>
<tr>
<td>709</td>
<td>Sport-100 Helmet, Black</td>
<td>Black</td>
<td></td>
<td></td>
<td></td>
<td>13.0782</td>
<td>7/1/2006</td>
</tr>
<tr>
<td>709</td>
<td>Mountain Bike Socks, M</td>
<td>White</td>
<td>M</td>
<td>U</td>
<td></td>
<td>3.3963</td>
<td>6/30/2006</td>
</tr>
<tr>
<td>710</td>
<td>Mountain Bike Socks, L</td>
<td>White</td>
<td>L</td>
<td>U</td>
<td></td>
<td>3.3963</td>
<td>7/1/2005</td>
</tr>
<tr>
<td>711</td>
<td>Sport-100 Helmet, Blue</td>
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<td></td>
<td></td>
<td>12.0276</td>
<td>6/30/2006</td>
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<td>Blue</td>
<td></td>
<td></td>
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<td>6/30/2007</td>
</tr>
<tr>
<td>711</td>
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<tr>
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<td>S</td>
<td>U</td>
<td></td>
<td>31.7244</td>
<td>6/30/2006</td>
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<td>M</td>
<td>U</td>
<td></td>
<td>31.7240</td>
<td>7/1/2007</td>
</tr>
</tbody>
</table>

7. Open a new Sheet for each of the next imports. Give an appropriate name to each Worksheet.

8. Make sure each report matches the proposed objectives mentioned in Part 1 of the assignment.

**Directions for Submitting Your Assignment**

For the narrative and other supporting information, compose your Team-Based Collaboration Project assignment in a Microsoft Word document, with a title page, including screen shots as appropriate, submit it using the following naming convention: IT350_TeamCollaboration_Part2_Reports<Team Name>.doc (or docx) and have it submitted by the student in the Recorder role to the team designated area by the end of Unit 10 by 12:00pm ET.
1. Verbal Communication assignment (due at the end of Unit 10 by 12:00pm ET)

This Assignment is to be completed individually, not as a team. Submit your audio file to the Verbal Communication Assignment Dropbox in Unit 10.

For this part of the assignment you will answer the question below by writing the script in a Word document and then record your response using VLC Media player (http://www.vlcmediaplayer.org/) and upload to your DropBox under Unit 10 Verbal Communication. The audio recording should be no less than one-minute long. VLC is a free and open source cross-platform multimedia player and framework that plays most multimedia files as well as DVDs, Audio CDs, VCDs, and various streaming protocols.

**Question:**
Describe your experiences working on the execution of the Part 2 of the Team-Collaboration Project. In addition, describe any issues that you encountered during the execution of any part of the requirements (Part 1 or Part 2). Feel free in making any suggestions.

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**Assignment 7 grading rubric = 60 points**

<table>
<thead>
<tr>
<th>Assignment Requirements</th>
<th>Points Possible</th>
<th>Points Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. The T-SQL uses a sub query and the result set displays correctly all PurchaseOrders that have the ShipMethods named (“OVERSEAS - DELUXE” or “OVERNIGHT J-FAST”).</td>
<td>0-7</td>
<td></td>
</tr>
<tr>
<td>2. The T-SQL uses a sub query and the result set displays correctly all PurchaseOrderID’s that do not have the ship methods named (“OVERSEAS – DELUXE” or “OVERNIGHT J-FAST”)</td>
<td>0-7</td>
<td></td>
</tr>
<tr>
<td>3. Explains correctly the differences between Union and Union All, and describes with an example or situation when to use UNION All versus UNION</td>
<td>0-8</td>
<td></td>
</tr>
<tr>
<td>4. Uses a Common Table Expression to join to a table and finds all PurchaseOrders that</td>
<td>0-8</td>
<td></td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Do NOT have the ShipMethods named (&quot;OVERSEAS -DELUXE&quot; or &quot;OVERNIGHT J-FAST&quot;) that is generated by a sub query. Displays the ShipMethodID and the Name.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>5. Describes the initial problem and explains how the CTE provides a solution.</td>
<td>0-5</td>
</tr>
<tr>
<td>6. Creates a meaningful report that addresses the boss’ request for information that can help advance the organization’s bottom line and/or improve the products’ market positioning.</td>
<td>0-15</td>
</tr>
<tr>
<td>7. The T-SQL code uses a CTE and the query executes correctly by displaying the list of the names of all the products sold, AND the totals for: order amount, qty received, and qty rejected. Includes only the list of products and vendors (sorted alphabetically) where products have been rejected.</td>
<td>0-10</td>
</tr>
<tr>
<td>Total (Sum of all points)</td>
<td>0-60</td>
</tr>
<tr>
<td>Less - points deducted for spelling, or grammar errors.</td>
<td></td>
</tr>
<tr>
<td>Adjusted Total Points</td>
<td></td>
</tr>
<tr>
<td>Comments:</td>
<td></td>
</tr>
</tbody>
</table>