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E-Commerce Project

On

Shoe Shop

Professor: Patrik Gignac

Course Code: Comp-229

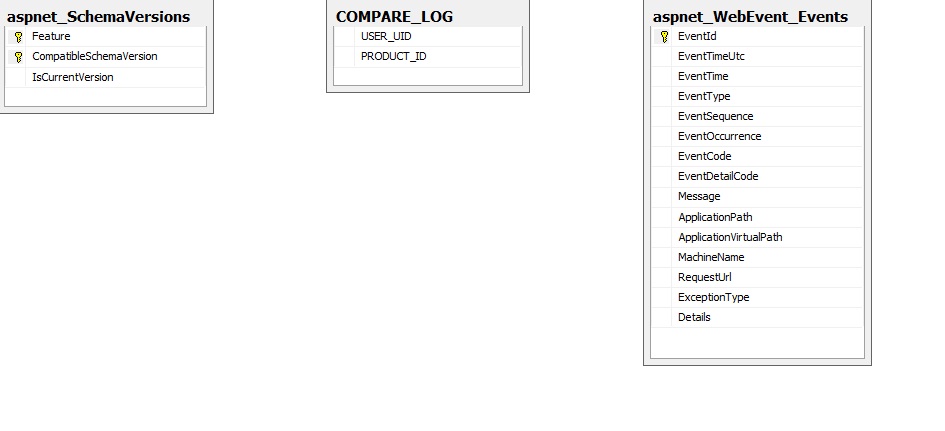
Course Title: Web Application Development

Date: December 07, 2012

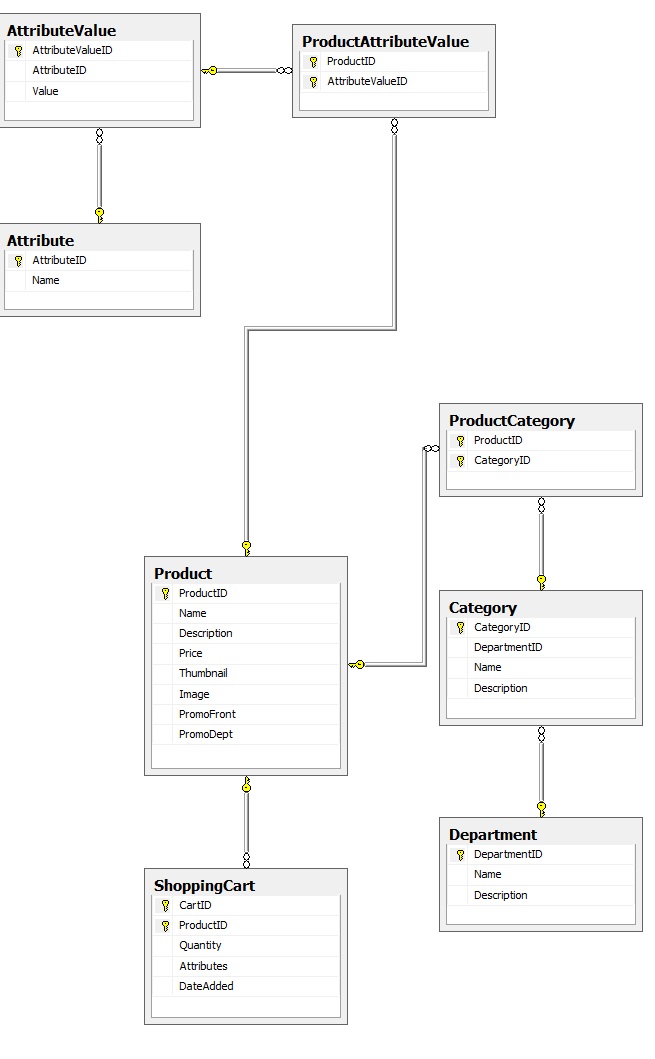
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| --- | --- | --- | --- | --- |
| Member | Last Name | First Name | Student Number | Section |
| 1 | Sharma | Lovu Dhiraj | 300721225 | 062 |
| 2 | Arora | Sumit | 300711055 | 062 |
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Design:-

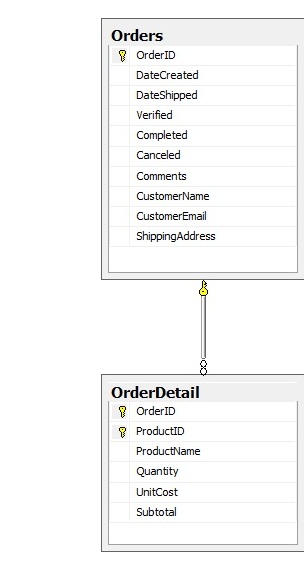
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| --- | --- | --- |
| **S No.** | **Table** | **Description** |
| 1 | aspnet\_SchemaVersions | Contains information about the Schema Version |
| 2 | COMPARE\_LOG | Contains log of compare feature |
| 3 | Aspnet\_WebEvent\_Events |  |



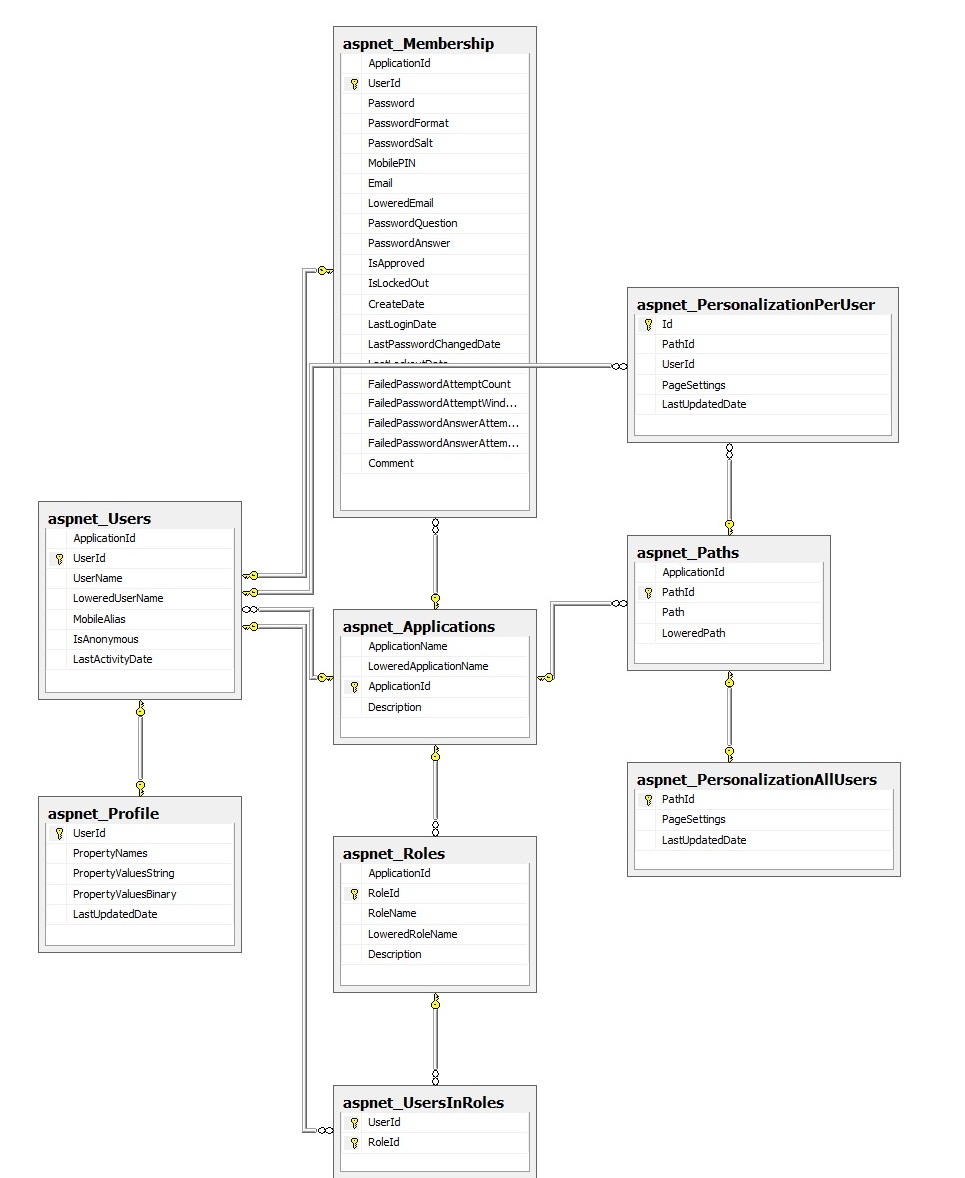
|  |  |  |
| --- | --- | --- |
| **S No.** | **Table** | **Description** |
| 4 | Department | Contains all the departments to which the categories belong. |
| 5 | Category | Contains all the categories to which the products belong. |
| 6 | Product | Contains all the product in the database. |
| 7 | Attribute | Contains attribute list of the products in the database. |
| 8 | AttributeValue | Contains all the values of the various attributes. |
| 9 | ProductCategory | Contains the data to which category products belong. |
| 10 | ProductAttributeValue | Contains the information about the attribute values of the different products. |
| 11 | ShoppingCart |  |



|  |  |  |
| --- | --- | --- |
| **S No.** | **Table** | **Description** |
| 12 | Order | Contains placed order related information. |
| 13 | OrderDetails | Contains all the details of the orders . |



|  |  |  |
| --- | --- | --- |
| **S No.** | **Table** | **Description** |
| 14 | aspnet\_Users | Used to store information regarding users, including user names and IDs. |
| 15 | aspnet\_Profile | Used by the SQL Profile Provider to store individual instances of property values. |
| 16 | aspnet\_Membership | Used by the SQL Membership Provider to store membership data. |
| 17 | aspnet\_PersonalizationPerUser | Used by the SQL Personalization Provider to store per-user personalization data. |
| 18 | aspnet\_Applications | Used by ASP.NET features to provide an application scope for data. |
| 19 | aspnet\_Roles | Used by the SQL Role Provider to store role data. |
| 20 | aspnet\_ aspnet\_Paths | Used by the SQL Personalization Provider to store the path for which Web Parts personalization state has been saved. |
| 21 | aspnet\_UsersInRoles | Used by the SQL Role Provider to map roles to users. |
| 22 | aspnet\_PersonalizationAllUsers | Used by the SQL Personalization Provider to store shared personalization data. |



Tables and Structure:-

1. **Category:** Contains data for all the categories and sub categories of the products to be stored in the database.

|  |  |  |
| --- | --- | --- |
| **Column** | **Properties** | **Description** |
| categoryID | * Number(5) * Not Null * Primary Key | Primary key for the table |
| categoryName | * Varchar(50) * Not Null | Name of the category |
| categoryDescription | * Varchar(200) * Not Null | Description of the category |
| parented | * Number(5) * Not Null * Default 0 | ID of the parent from category table if category is sub category. |

1. **Products:** This table gives description about products and product details.

|  |  |  |
| --- | --- | --- |
| **Column** | **Properties** | **Description** |
| categoryID | * Number(5) * Not Null * Primary Key | Primary key for the table |
| categoryName | * Varchar(50) * Not Null | Name of the category |
| categoryDescription | * Varchar(200) * Not Null | Description of the category |
| parented | * Number(5) * Not Null * Default 0 | ID of the parent from category table if category is sub category. |

1. **Attribute:** This table describes the type of attribute with attributeID and attributeName.

|  |  |  |
| --- | --- | --- |
| **Column** | **Properties** | **Description** |
| categoryID | * Number(5) * Not Null * Primary Key | Primary key for the table |
| categoryName | * Varchar(50) * Not Null | Name of the category |
| categoryDescription | * Varchar(200) * Not Null | Description of the category |
| Parented | * Number(5) * Not Null * Default 0 | ID of the parent from category table if category is sub category. |

1. **AttributeValues:** This table describes the values of the attribute.

|  |  |  |
| --- | --- | --- |
| **Column** | **Properties** | **Description** |
| categoryID | * Number(5) * Not Null * Primary Key | Primary key for the table |
| categoryName | * Varchar(50) * Not Null | Name of the category |
| categoryDescription | * Varchar(200) * Not Null | Description of the category |
| parented | * Number(5) * Not Null * Default 0 | ID of the parent from category table if category is sub category. |

1. **ProductAttributes:** This table describes the product attributes on products.

|  |  |  |
| --- | --- | --- |
| **Column** | **Properties** | **Description** |
| categoryID | * Number(5) * Not Null * Primary Key | Primary key for the table |
| categoryName | * Varchar(50) * Not Null | Name of the category |
| categoryDescription | * Varchar(200) * Not Null | Description of the category |
| parented | * Number(5) * Not Null * Default 0 | ID of the parent from category table if category is sub category. |

Indexes:-

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Index Keyname** | **Table** | **Column** | **Description** |
| 1. | category\_id\_idx | category | * categoryID * parentID | Search index comprises of categoryID and parentID |
| 2. | product\_id\_idx | products | * productID * categoryID | Search index comprises of productID and categoryID |
| 3. | attribute\_value\_id\_idx | attributeValues | * attributeValueID * attributeID | Search index comprises of attributeValueID and attributeID |
| 4. | product\_attribute\_idx | productAttributes | * productID * attributeValueID | Search index comprises of productID and attributeValueID |

StoredProcedures:-

1. **GetParentCategories**

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Parameter** | **IN** | **OUT** |
| 1 | cursor\_categories |  | Yes |

**Explanation:**

This stored procedure retrieves the list of parent categories from the category table. The row is identified as parent category if the value of parentID column is 0.

1. **getAllCategories**

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Parameter** | **IN** | **OUT** |
| 1 | cursor\_categories |  | Yes |

**Explanation:**

This stored procedure retrieves all the items stored in the category table.

1. **getCategoriesByID**

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Parameter** | **IN** | **OUT** |
| 1 | category\_id | Yes |  |
| 2 | cursor\_categories |  | Yes |

**Explanation:**

Category\_id is id of the parent category passed into the stored procedure. The procedure retrieves all the details of the subcategory associated with the parent category.

1. **getProductsByCategoryID**

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Parameter** | **IN** | **OUT** |
| 1 | category\_id | Yes |  |
| 2 | cursor\_products |  | Yes |

**Explanation:**

This store procedure returns all product list from the Products table, which are under the category passed in.

1. **getAttributesByProductID**

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Parameter** | **IN** | **OUT** |
| 1 | product\_id | Yes |  |
| 2 | cursor\_products |  | Yes |

**Explanation:**

This stored procedure returns the list of attributes available to the product whose product\_id is passed in.

Functions:-

1. **getCountOfProductsByCategoryID**

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Variable** | **Type** | **DataType** |
| 1 | category\_id | Parameter | Number |
| 2 | total\_count | Variable | Number(5) |

**Explanation:**

This function calculates the number of products available in the category, whose value is passed it. The count is stored in the variable total\_count and is returned

1. **getCountProAttrByID**

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Variable** | **Type** | **DataType** |
| 1 | attribute\_id | Parameter | Number |
| 2 | total\_count | Variable | Number(5) |

**Explanation:**

Triggers:-