Database Design of website sales watch

Version 1.0

Date: 16/3/2015

Tables of database

|  |  |  |
| --- | --- | --- |
| **STT** | **Name Table** | **Description** |
| 1 | [**Product**](#TableProduct)**s** | Table contain information of product |
| 2 | [**Brand**](#TableBrand) | Brand of product |
| 3 | [**Category**](#TableCategory) | Type of product |
| 4 | [**CommentProduct**](#TableCommentProduct) | Comment of product |
| 5 | [**Promotion**](#TablePromotion) | Promotion of product |
| 6 | [**Customer**](#TableCustomer)**s** | Account which customer register, information of customer |
| 7 | [**Administrator**](#TableAdministrator) | Account administrator of website |
| 8 | [**Order**](#TableOrder)**s** | Order when user buy product |
| 9 | [**Order\_Detail**](#TableOrderDetail) | Products of order bill |
| 10 | [**ConfigSys**](#TableConfigSys) | Property configuration of system. |
| 11 | [**Menu**](#TableMenu) | Items of menu bar |

Relation Entity Diagram

**Menu**

**ConfigSys**

**Promotion**

**Administrator**

**Category**

**Brand**

**Product**

**Comment Product**

**Customer**

**Order**

**OrderDetail**

Table **Products**

|  |  |  |  |
| --- | --- | --- | --- |
| **STT** | **Column Name** | **Data Type** | **Desciption** |
|  | Id | Int | Id of product |
|  | Tag | Nvarchar(255) | To google search |
|  | Name | Nvarchar(255) | Name of product |
|  | [Content] | Ntext | Content of product |
|  | Detail | Ntext | Detail technique of product |
|  | Priority | Smallint | Priority of product |
|  |  |  |  |
|  | Price | Float | Price of product |
|  | TinyImage | Varchar(200) | TinyImage representation of product |
|  | BigImage | Varchar(200) | Big Image representation of product |
|  | BrandId | Int | Brand of product |
|  | BrandTag | Int | Brand tag to google search of product |
|  | Title | Varchar(200) | Title of product |
|  | Description | Ntext | Description of product |
|  | Keyword | Varchar(200) | N/A |
|  | Active | Int | Status of product.  0 – Inactive  1 – Active |
|  | Ord | Int | N/A |
|  | Lang | Varchar(5) | N/A |
|  | PiceOld | Varchar(200) | N/A |
|  | Image1 | Varchar(200) | Image Collection of product |
|  | Image2 | Varchar(200) | Image Collection of product |
|  | Image3 | Varchar(200) | Image Collection of product |
|  | Image4 | Varchar(200) | Image Collection of product |
|  | Image5 | Varchar(200) | Image Collection of product |
|  | CodePro | Varchar(200) | Code of product |
|  | Amount | Int | Amount of product |
|  | AmountBought | Int | Amount product which is bought |
|  | AmountLike | Int | Amount “like” of product which is liked by user |
|  | DateBegin | DateTime | N/A |
|  | DateEnd | DateTime | N/A |
|  | Property1 | Varchar(100) | “Màu chủ đạo” |
|  | Property2 | Varchar(100) | “Xuất xứ” |
|  | Property3 | Varchar(100) | “Chất liệu dây đeo” |
|  | Property4 | Varchar(100) | “Chất liệu vỏ đồng hồ” |
|  | Property5 | Varchar(200) | “Chất liệu mặt đồng hồ” |
|  | Property6 | Varchar(100) | “Loại năng lượng” |
|  | Property7 | Varchar(100) | “Màu dây đeo” |
|  | Property8 | Varchar(100) | “Đồng hồ nam hoặc nữ”  Male – Nam  Female – Nữ |
|  | CateId | Int | Category of product |
|  | CateTag | Varchar(200) | Category tag to google search |
|  | UserCreate | Varchar(100) | User create product |
|  | DateCreate | Datetime | Date create product |

Table **Category**

|  |  |  |  |
| --- | --- | --- | --- |
| **STT** | **Column Name** | **Data Type** | **Description** |
| 1 | Id | Int | Id of category |
| 2 | Tag | Nvarchar(256) | Tag of category to google search |
| 3 | Name | Nvarchar(256) | Name of category |
| 4 | [Content] | Nvarchar(256) | Content of category |
| 5 | Level | Nvarchar(100) | N/A |
| 6 | Piority | SmallInt | N/A |
| 8 | Image | Varchar(256) | Image representation of product |
| 9 | Title | Nvarchar(256) | TItle of category |
| 10 | Desciption | Ntext | Description of category |
| 11 | Keyword | Nvarhcar(256) | N/A |
| 12 | Active | Int | Status of category  0 – Invisible  1 – Visible |
| 13 | Ord | Int | N/A |
| 14 | Lang | Varchar(5) | N/A |
| 15 | Image2 | Nvarchar(256) | Image 2 of category |

Table **CommentProduct**

|  |  |  |  |
| --- | --- | --- | --- |
| **STT** | **Column Name** | **Data Type** | **Description** |
| 1 | Id | Int | Id of comment |
| 2 | ProId | Int | Id of product its comment |
| 3 | Name | Nvarchar(256) | Name of visitor comment |
| 4 | Email | Nvarchar(256) | Email of visitor comment |
| 5 | Point | Int | N/A |
| 6 | [Content] | Ntext | Content of comment |
| 7 | Date | DateTime | Date Time of comment which is added db |
| 8 | Active | Int | Status of comment  0 – Invisible  1 – Visible |

Table **Brand**

|  |  |  |  |
| --- | --- | --- | --- |
| **STT** | **Column Name** | **Data Type** | **Description** |
| 1 | Id | Int | Id of brand |
| 2 | Name | Nvarchar(255) | Name of brand |
| 3 | Logo | Varchar(255) | Image logo of brand |
| 4 | Ord | Int | N/A |
| 5 | Lang | Varchar(5) | N/A |

Table **Menu**

|  |  |  |  |
| --- | --- | --- | --- |
| **STT** | **Column Name** | **Data Type** | **Description** |
| 1 | Id | Int | Id of menu |
| 2 | Name | Nvarchar(256) | Name of menu |
| 3 | Logo | Varchar(256) | Image logo of menu |
| 4 | Link | Varchar(256) | Link of menu when user click |
| 5 | Active | Int | Status of menu  0 – Disable  1 – Available |
| 6 | Ord | Int | Order of menu items |
| 7 | ParentId | Int | Parent menu of this item menu |

Table **Promotion**

|  |  |  |  |
| --- | --- | --- | --- |
| **STT** | **Column Name** | **Data Type** | **Description** |
| 1 | Id | Int | Id of promotion |
| 2 | [Content] | Ntext | Content of promotion |
| 3 | StartDate | DateTime | StartDate of promotion |
| 4 | EndDate | DateTime | End Date of promotion |
| 5 | ProId | Id | Product is promoted |
| 6 | DiscountPercent | Float | Discount by percent |
| 7 | DiscountValues | Float | Discount by values |
| 8 | Description | Ntext | Description of promotion |
| 9 | Active | Int | 0 – Inactive  1 – Active |

Table **Administrator**

|  |  |  |  |
| --- | --- | --- | --- |
| **STT** | **Column Name** | **Data Type** | **Description** |
| 1 | Id | Int | Id of account admin |
| 2 | Name | Nvarchar(256) | Name of admin |
| 3 | Username | Varchar(50) | Username of admin to login |
| 4 | Password | Varchar(50) | Password of admin to login |
| 5 | Role | Varchar(100) | Roles of admin, separate by colon.  Ex: InsertProduct,DeleteProduct,InsertUser,ViewUser |
| 6 | Ord | Int | Order view of admin |
| 7 | Active | Int | Status of admin  0 – Inactive  1 – Active |

Table **Customers**.

|  |  |  |  |
| --- | --- | --- | --- |
| STT | Column Name | Data Type | Description |
| 1 | Id | Int | Id of User |
| 2 | Name | Nvarchar(256) | Display name of User |
| 3 | Username | Varchar(64) | Username use to login System |
| 4 | Password | Varchar(64) | Use to login System |
| 5 | Birthday | Datetime | Birthday of customer |
| 6 | Province | Varchar(100) | Province where ship product |
| 7 | CusPhone | Varchar(100) | HomePhone of customer |
| 8 | CusMobile | Varchar(100) | Mobile phone of customer |
| 9 | CusEmail | Varchar(100) | Email of customer |
| 10 | CusAddress | Varchar(200) | Address of customer |
| 11 | CusAddressShip | Varchar(200) | Address ship product |
| 12 | DateCreate | DateTime | Date create of account |
| 13 | Active | Int | Use to determine whether account is active?  0 – Inactive  1 – Active |

Table **Orders**

|  |  |  |  |
| --- | --- | --- | --- |
| STT | Column Name | Data Type | Description |
|  | Id | Int | Id of Order |
|  | Date | Datetime | The date when Customer order. |
|  | Code | Varchar(100) | Code of bill |
|  | TypePay | Varchar(50) | Type of Payment |
|  | Status | Int | Status of Order:   1. not ship – not pay 2. not ship – pay 3. shipped – not pay 4. shipper – pay 5. Cancel |
|  | Idate | DateTime | Input Date |
|  | Xdate | DateTime | Date when ship product for customer |
|  | Request | Ntext | Use to note special request from customer |
|  | CusName | Nvarchar(100) | Customer name |
|  | CusPhone | Varchar(100) | Customer phone |
|  | CusEmail | Varchar(100) | Customer Email |
|  | CusAddress | Nvarchar(200) | Customer address |
|  | CusAddressShip | Nvarchar(200) | Address ship |
|  | Province | Nvarchar(50) | Customer province |

Table **Order\_Detail**

|  |  |  |  |
| --- | --- | --- | --- |
| STT | Column Name | Data Type | Description |
| 1 | Id | Int | Id of Order Detail |
| 2 | Order\_Id | int | Order identifier |
| 3 | Pro\_Id | Int | Id of product. |
| 4 | Quantity | Int | Number of Product that customer want to buy. |
| 5 | OriginalPrice | float | Original Price product. VND |
| 6 | PayPrice | float | Price product. VND |
| 7 | Date | Date | Date of order detail. |
| 8 | Status | int | Status of each Product:   1. not ship – not pay 2. not ship – pay 3. shipped – not pay 4. shipper – pay 5. cancel |
| 9 | IdPromo | int | ID of promotion if have |

Table **ConfigSys**

|  |  |  |  |
| --- | --- | --- | --- |
| **STT** | **Column Name** | **Data Type** | **Description** |
| 1 | Id | Int | Id of configuration |
| 2 | Name | Varchar(200) | Name of attribute configuration |
| 3 | Value | Varchar(200) | Values of attribute configuration |
| 4 | Description | Ntext | Description of attribute |
| 5 | DateCreated | DateTime | Date create attribute |
| 6 | DateEffective | DateTime | Date start effective of attribute |
| 7 | DateExpired | DateTime | Date expired effective of attribute |
| 8 | Active | Int | Status active of attribute  0 – Inactive  1 – Active |