**Table: Employee**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **#** | **Field Name** | **Data Type** | **Const.** | **A. I.** | **Req.** | **Comments** |
| **1** | ID | Integer | PK | Y | Y | - |
| **2** | Employee ID | nVarchar(10) | Unique | - | Y | System Generated |
| **3** | Image | nVarBinary(max) | - | - | - | - |
| **4** | Designation | nVarchar(20) | - | - | Y | - |
| **5** | Salary | Money | - | - | Y | - |
| **6** | Created On | DateTime2 | - | - | Y | System Entry |
| **7** | Last Modified On | DateTime2 | - | - | Y | System Entry |

**ASP.NET Claims Used**

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Claim Name** | **Required** | **Comments** |
| **1** | Name | Y | First Name of User |
| **2** | Surname | - | Last Name of User |
| **3** | Gender | Y | Male/Female |
| **4** | StreetAddress | Y | Address |
| **5** | StateOrProvince | Y | State |
| **6** | PostalCode | Y | Postal Code |
| **7** | MobilePhone | Y | Mobile Number |

**Table: Leaves**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **#** | **Field Name** | **Data Type** | **Const.** | **A. I.** | **Req.** | **Comments** |
| **1** | ID | Integer | PK | Y | Y | - |
| **2** | Employee ID | Integer | FK | - | Y | Link to Employee Table, Cascade Delete |
| **3** | Balance | TinyInt | - | - | Y | Leave Balance |
| **4** | Applied | TinyInt | - | - | Y | Default 0, Applied Leaves |
| **5** | Monthly Limit | TinyInt | - | - | Y | Monthly Leave Limit |
| **6** | Last Applied On | Date | - | - | - | Last Leave Applied Date |
| **7** | Last Approved On | Date | - | - | - | Last Leave Approved Date |
| **8** | Created On | DateTime2 | - | - | Y | System Entry |
| **9** | Last Modified On | DateTime2 | - | - | Y | System Entry |

**Table: Leave Applications**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **#** | **Field Name** | **Data Type** | **Const.** | **A. I.** | **Req.** | **Comments** |
| **1** | ID | Integer | PK | Y | Y | - |
| **2** | Employee ID | Integer | FK | - | Y | Link to Employee Table, Cascade Delete |
| **3** | Start Date | Date | - | - | Y | Leave Start Date |
| **4** | End Date | Date | - | - | Y | Leave End Date |
| **5** | Approved | Bit | - | - | Y | Default 0 (false) |
| **6** | Applied On | Date | - | - | - | Leave Applied Date |
| **7** | Created On | DateTime2 | - | - | Y | System Entry |
| **8** | Last Modified On | DateTime2 | - | - | Y | System Entry |

**Table: Leave Approvals**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **#** | **Field Name** | **Data Type** | **Const.** | **A. I.** | **Req.** | **Comments** |
| **1** | Application ID | Integer | FK | - | Y | Link to Leave Applications, Cascade Delete |
| **2** | Approved On | Date | - | - | - | Leave Approved Date |
| **3** | Approved By | Integer | FK | - | - | Link to Employee Table |
| **4** | Created On | DateTime2 | - | - | Y | System Entry |
| **5** | Last Modified On | DateTime2 | - | - | Y | System Entry |

**Table: Tasks**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **#** | **Field Name** | **Data Type** | **Const.** | **A. I.** | **Req.** | **Comments** |
| **1** | ID | Integer | PK | Y | Y | - |
| **2** | Order ID | Integer | - | - | Y | Default 0 |
| **3** | Parent ID | Integer | FK | - | Y | Nullable, Link to Same Table |
| **4** | Start Date | DateTime2 | - | - | Y | Task Start Date Time |
| **5** | Due Date | DateTime2 | - | - | Y | Task Due Date Time |
| **6** | Percent Complete | Decimal(3,2) | - | - | Y | Default 0.00 |
| **6** | Summary Task | Bit | - | - | - | Default 0 (false) |
| **7** | Description | Varchar(300) | - | - | - | Task Description |
| **8** | Created On | DateTime2 | - | - | Y | System Entry |
| **9** | Last Modified On | DateTime2 | - | - | Y | System Entry |

**Table: Resources**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **#** | **Field Name** | **Data Type** | **Const.** | **A. I.** | **Req.** | **Comments** |
| **1** | ID | Integer | PK | Y | Y | - |
| **2** | Employee ID | Integer | FK | - | Y | Link to Employee Table, Cascade Delete |
| **3** | Color | Varchar(6) | - | - | Y | - |
| **4** | Created On | DateTime2 | - | - | Y | System Entry |
| **5** | Last Modified On | DateTime2 | - | - | Y | System Entry |

**Table: Resource Assignments**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **#** | **Field Name** | **Data Type** | **Const.** | **A. I.** | **Req.** | **Comments** |
| **1** | ID | Integer | PK | Y | Y | - |
| **2** | Resource ID | Integer | FK | - | Y | Link to Resources Table, Cascade Delete |
| **3** | Task ID | Integer | FK | - | Y | Link to Tasks Table, Cascade Delete |
| **4** | Created On | DateTime2 | - | - | Y | System Entry |
| **5** | Last Modified On | DateTime2 | - | - | Y | System Entry |

**Table: Task Dependencies**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **#** | **Field Name** | **Data Type** | **Const.** | **A. I.** | **Req.** | **Comments** |
| **1** | ID | Integer | PK | Y | Y | - |
| **2** | Predecessor ID | Integer | FK | - | Y | Link to Tasks Table, Cascade Delete |
| **3** | Successor ID | Integer | FK | - | Y | Link to Tasks Table, Cascade Delete |
| **4** | Type | TinyInt | - | - | Y | Dependency Type |
| **5** | Created On | DateTime2 | - | - | Y | System Entry |
| **6** | Last Modified On | DateTime2 | - | - | Y | System Entry |