**1.0 Data Definition**

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| 1. **Authority (Authority)** | | | | |
| **No.** | **Column Name** | **Type** | **Length** | **Constraint** |
|  | AuthorityID | Int | Max | Primary Key, Not Null |
|  | AuthorityName | Nvarchar | 150 | Not Null |
|  | Description | Nvarchar | 300 | Null |
|  | Status | Nvarchar | 50 | Null |
|  | IsActive | Bit | Max | Default 0 |
|  | UserCreated | Nvarchar | 10 | Null |
|  | UserModified | Nvarchar | 10 | Null |
|  | DateCreated | DateTime | Max | Null |
|  | DateModified | DateTime | Max | Null |

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| 1. **Business Unit (BUnit)** | | | | |
| **No.** | **Column Name** | **Type** | **Length** | **Constraint** |
|  | BUID | Int | Max | Primary Key, Not Null |
|  | BUName | Nvarchar | 150 | Not Null |
|  | Description | Nvarchar | 300 | Null |
|  | Status | Nvarchar | 50 | Null |
|  | IsActive | Bit | Max | Default 0 |
|  | UserCreated | Nvarchar | 10 | Null |
|  | UserModified | Nvarchar | 10 | Null |
|  | DateCreated | DateTime | Max | Null |
|  | DateModified | DateTime | Max | Null |

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| 1. **Cabinet (Cabinet)** | | | | |
| **No.** | **Column Name** | **Type** | **Length** | **Constraint** |
|  | CabinetID | Int | Max | Primary Key, Not Null |
|  | CabinetName | Nvarchar | 150 | Not Null |
|  | WhouseID | Int | Max | Foreign Key(Store), Not Null |
|  | Description | Nvarchar | 300 | Null |
|  | Status | Nvarchar | 50 | Null |
|  | IsActive | Bit | Max | Default 0 |
|  | UserCreated | Nvarchar | 10 | Null |
|  | UserModified | Nvarchar | 10 | Null |
|  | DateCreated | DateTime | Max | Null |
|  | DateModified | DateTime | MAx | Null |

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| 1. **Cost Centre (CostCentre)** | | | | |
| **No.** | **Column Name** | **Type** | **Length** | **Constraint** |
|  | CostCentreID | Int | Max | Primary Key, Not Null |
|  | CostCentreName | Nvarchar | 150 | Not Null |
|  | Description | Nvarchar | 300 | Null |
|  | Status | Nvarchar | 50 | Null |
|  | IsActive | Bit | Max | Default 0 |
|  | UserCreated | Nvarchar | 10 | Null |
|  | UserModified | Nvarchar | 10 | Null |
|  | DateCreated | DateTime | Max | Null |
|  | DateModified | DateTime | Max | Null |

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| 1. **Drawer (Drawer)** | | | | |
| **No.** | **Column Name** | **Type** | **Length** | **Constraint** |
|  | DrawerID | Int | Max | Primary Key, Not Null |
|  | DrawerNameName | Nvarchar | 150 | Not Null |
|  | CabinetID | Int | Max | Foreign Key (Cabinet), Not Null |
|  | Description | Nvarchar | 300 | Null |
|  | Status | Nvarchar | 50 | Null |
|  | IsActive | Bit | Max | Default 0 |
|  | UserCreated | Nvarchar | 10 | Null |
|  | UserModified | Nvarchar | 10 | Null |
|  | DateCreated | DateTime | Max | Null |
|  | DateModified | DateTime | Max | Null |

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| 1. **Main Category (MainCategory)** | | | | |
| **No.** | **Column Name** | **Type** | **Length** | **Constraint** |
|  | MainCategoryID | Int | Max | Primary Key, Not Null |
|  | MainCategoryName | Nvarchar | 150 | Not Null |
|  | Description | Nvarchar | 300 | Null |
|  | Status | Nvarchar | 50 | Null |
|  | IsActive | Bit | Max | Default 0 |
|  | UserCreated | Nvarchar | 10 | Null |
|  | UserModified | Nvarchar | 10 | Null |
|  | DateCreated | DateTime | Max | Null |
|  | DateModified | DateTime | Max | Null |

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| 1. **Maker (Maker)** | | | | |
| **No.** | **Column Name** | **Type** | **Length** | **Constraint** |
|  | MakerID | Int | Max | Primary Key, Not Null |
|  | MakerName | Nvarchar | 150 | Not Null |
|  | Description | Nvarchar | 300 | Null |
|  | Status | Nvarchar | 50 | Null |
|  | IsActive | Bit | Max | Default 0 |
|  | UserCreated | Nvarchar | 10 | Null |
|  | UserModified | Nvarchar | 10 | Null |
|  | DateCreated | DateTime | Max | Null |
|  | DateModified | DateTime | Max | Null |

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| 1. **Part Inventory (PartInv)** | | | | |
| **No.** | **Column Name** | **Type** | **Length** | **Constraint** |
|  | PartInvID | Int | Max | Primary Key, Not Null |
|  | PartID | Int | Max | Not Null |
|  | StockInv | Int | Max | Default 0 |
|  | MinQty | Int | Max | Default 0 |
|  | MaxQty | Int | Max | Default 0 |
|  | LowQty | Int | Max | Default 0 |
|  | LeadTime | Nvarchar | 50 | Not Null |
|  | DrawerID | Int | Max | Foreign Key (Drawer), Not Null |
|  | Description | Nvarchar | 300 | Null |
|  | Status | Nvarchar | 50 | Null |
|  | IsActive | Bit | Max | Default 0 |
|  | UserCreated | Nvarchar | 10 | Null |
|  | UserModified | Nvarchar | 10 | Null |
|  | DateCreated | DateTime | Max | Null |
|  | DateModified | DateTime | Max | Null |

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| 1. **Part Maker (PartMaker)** | | | | |
| **No.** | **Column Name** | **Type** | **Length** | **Constraint** |
|  | PartMakerID | Int | Max | Primary Key, Not Null |
|  | PartID | Int | Max | Foreign Key (Part Master), Not Null |
|  | MakerID | Int | Max | Foreign Key (Maker), Not Null |
|  | Description | Nvarchar | 300 | Null |
|  | Status | Nvarchar | 50 | Null |
|  | IsActive | Bit | Max | Default 0 |
|  | UserCreated | Nvarchar | 10 | Null |
|  | UserModified | Nvarchar | 10 | Null |
|  | DateCreated | DateTime | N/A | Null |
|  | DateModified | DateTime | N/A | Null |

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| 1. **Part Master (PartMaster)** | | | | |
| **No.** | **Column Name** | **Type** | **Length** | **Constraint** |
|  | PartID | Int | Max | Primary Key, Not Null |
|  | PartNo | Nvarchar | 80 | Not Null |
|  | ItemNo | Nvarchar | 80 | Not Null |
|  | PartName | Nvarchar | 250 | Not Null |
|  | PartImage | Varbinary | Max | Null |
|  | PartImagePath | Nvarchar | 250 | Null |
|  | PartImageFileType | Nvarchar | 20 | Null |
|  | PartDrawingImage | Varbinary | Max | Null |
|  | PartDrawingPath | Nvarchar | 250 | Null |
|  | PartDrawingFileType | Nvarchar | 20 | Null |
|  | SubCategoryID | Int | Max | Foreign Key (Sub Category), Not Null |
|  | VendorID | Int | Max | Foreign Key (Vendor), Not Null |
|  | MakerID | Int | Max | Foreign Key (Maker), Not Null |
|  | Description | Nvarchar | 300 | Null |
|  | Status | Nvarchar | 50 | Null |
|  | IsActive | Bit | Max | Default 0 |
|  | UserCreated | Nvarchar | 10 | Null |
|  | UserModified | Nvarchar | 10 | Null |
|  | DateCreated | DateTime | Max | Null |
|  | DateModified | DateTime | Max | Null |

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| 1. **Part Transfer In (PartTransferIn)** | | | | |
| **No.** | **Column Name** | **Type** | **Length** | **Constraint** |
|  | PartTransferInID | Int | Max | Primary Key, Not Null |
|  | PartID | Int | Max | Foreign Key (Part Master), Not Null |
|  | Qty | Int | Max | Default 0 |
|  | BUID | Int | Max | Not Null |
|  | DrawerID | Int | Max | Not Null |
|  | Description | Nvarchar | 300 | Null |
|  | Status | Nvarchar | 50 | Null |
|  | IsActive | Bit | Max | Default 0 |
|  | UserCreated | Nvarchar | 10 | Null |
|  | UserModified | Nvarchar | 10 | Null |
|  | DateCreated | DateTime | Max | Null |
|  | DateModified | DateTime | Max | Null |

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| 1. **Part Transfer Out (PartTransferOut)** | | | | |
| **No.** | **Column Name** | **Type** | **Length** | **Constraint** |
|  | PartTransferOutID | Int | Max | Primary Key, Not Null |
|  | PartID | Int | Max | Foreign Key (Part Master), Not Null |
|  | Qty | Int | Max | Default 0 |
|  | FromDrawerID | Int | Max | Foreign Key (Drawer), Not Null |
|  | ToStoreID | Int | Max | Foreign Key (Store) ,Not Null |
|  | Description | Nvarchar | 300 | Null |
|  | Status | Nvarchar | 50 | Null |
|  | IsActive | Bit | Max | Default 0 |
|  | UserCreated | Nvarchar | 10 | Null |
|  | UserModified | Nvarchar | 10 | Null |
|  | DateCreated | DateTime | Max | Null |
|  | DateModified | DateTime | Max | Null |

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| 1. **Part Vendor (PartVendor)** | | | | |
| **No.** | **Column Name** | **Type** | **Length** | **Constraint** |
|  | PartVendorID | Int | Max | Primary Key, Not Null |
|  | PartID | Int | Max | Foreign Key (Part Master), Not Null |
|  | VendorID | Int | Max | Foreign Key (Vendor), Not Null |
|  | Price | Int | Max | Foreign Key (Drawer), Not Null |
|  | Description | Nvarchar | 300 | Null |
|  | Status | Nvarchar | 50 | Null |
|  | IsActive | Bit | Max | Default 0 |
|  | UserCreated | Nvarchar | 10 | Null |
|  | UserModified | Nvarchar | 10 | Null |
|  | DateCreated | DateTime | Max | Null |
|  | DateModified | DateTime | Max | Null |

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| 1. **Plant (Plant)** | | | | |
| **No.** | **Column Name** | **Type** | **Length** | **Constraint** |
|  | PlantID | Int | Max | Primary Key, Not Null |
|  | PlantName | Nvarchar | 20 | Not Null |
|  | Description | Nvarchar | 300 | Null |
|  | Status | Nvarchar | 50 | Null |
|  | IsActive | Bit | Max | Default 0 |
|  | UserCreated | Nvarchar | 10 | Null |
|  | UserModified | Nvarchar | 10 | Null |
|  | DateCreated | DateTime | Max | Null |
|  | DateModified | DateTime | Max | Null |

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| 1. **Section (Section)** | | | | |
| **No.** | **Column Name** | **Type** | **Length** | **Constraint** |
|  | SectionID | Int | Max | Primary Key, Not Null |
|  | SAPCode | Nvarchar | 50 | Not Null |
|  | SectionName | Nvarchar | 150 | Not Null |
|  | CostCentreID | Int | Max | Foreign Key (Cost Center), Not Null |
|  | BUID | Int | Max | Foreign Key (Business Unit), Not Null |
|  | PlantID | Int | Max | Foreign Key (Plant), Not Null |
|  | Description | Nvarchar | 300 | Null |
|  | Status | Nvarchar | 50 | Null |
|  | IsActive | Bit | Max | Default 0 |
|  | UserCreated | Nvarchar | 10 | Null |
|  | UserModified | Nvarchar | 10 | Null |
|  | DateCreated | DateTime | Max | Null |
|  | DateModified | DateTime | Max | Null |

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| 1. **Status Request (StatusRequest)** | | | | |
| **No.** | **Column Name** | **Type** | **Length** | **Constraint** |
|  | StatusRequestID | Int | Max | Primary Key, Not Null |
|  | StatusName | Nvarchar | 50 | Not Null |
|  | Description | Nvarchar | 300 | Null |
|  | Status | Nvarchar | 50 | Null |
|  | IsActive | Bit | Max | Default 0 |
|  | UserCreated | Nvarchar | 10 | Null |
|  | UserModified | Nvarchar | 10 | Null |
|  | DateCreated | DateTime | Max | Null |
|  | DateModified | DateTime | Max | Null |

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| 1. **Store (Store)** | | | | |
| **No.** | **Column Name** | **Type** | **Length** | **Constraint** |
|  | WhouseID | Int | Max | Primary Key, Not Null |
|  | WhouseName | Nvarchar | 50 | Not Null |
|  | SectionID | Int | Max | Foreign Key (Section), Not Null |
|  | Description | Nvarchar | 300 | Null |
|  | Status | Nvarchar | 50 | Null |
|  | IsActive | Bit | Max | Default 0 |
|  | UserCreated | Nvarchar | 10 | Null |
|  | UserModified | Nvarchar | 10 | Null |
|  | DateCreated | DateTime | Max | Null |
|  | DateModified | DateTime | Max | Null |

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| 1. **Sub Category (SubCategory)** | | | | |
| **No.** | **Column Name** | **Type** | **Length** | **Constraint** |
|  | SubCategoryID | Int | Max | Primary Key, Not Null |
|  | SubCategoryName | Nvarchar | 150 | Not Null |
|  | MainCategoryID | Int | Max | Foreign Key (Main Category), Not Null |
|  | Description | Nvarchar | 300 | Null |
|  | Status | Nvarchar | 50 | Null |
|  | IsActive | Bit | Max | Default 0 |
|  | UserCreated | Nvarchar | 10 | Null |
|  | UserModified | Nvarchar | 10 | Null |
|  | DateCreated | DateTime | Max | Null |
|  | DateModified | DateTime | Max | Null |

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| 1. **Vendor (Vendor)** | | | | |
| **No.** | **Column Name** | **Type** | **Length** | **Constraint** |
|  | VendorID | Int | Max | Primary Key, Not Null |
|  | VendorNo | Nvarchar | 150 | Not Null |
|  | AccountGroup | Nvarchar | 20 | Not Null |
|  | VendorName | Nvarchar | 250 | Not Null |
|  | SAPVendorCode | Nvarchar | 50 | Null |
|  | PhoneNo | Nvarchar | 100 | Null |
|  | Email | Nvarchar | 250 | Null |
|  | Description | Nvarchar | 300 | Null |
|  | Status | Nvarchar | 50 | Null |
|  | IsActive | Bit | Max | Default 0 |
|  | UserCreated | Nvarchar | 10 | Null |
|  | UserModified | Nvarchar | 10 | Null |
|  | DateCreated | DateTime | Max | Null |
|  | DateModified | DateTime | Max | Null |

**2.0 Entity Relationship**

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| **No.** | **Table Name** | **Remarks** |
| 1 | 1. Store->Cabinet |  |
| 2. | a. Cabinet->Drawer |  |
| 3. | a. Part->PartInv  b. Drawer->PartInv |  |
| 4. | a. CostCenter->Section  b. Business Unit->Section  c. Plant->Section |  |
| 5. | a. Main Category->Sub Category |  |
| 6. | a. Section->Store |  |
| 7. | a. Part Master->Part Transfer Out  b. Drawer->Part Transfer Out  c. Store->Part Transfer Out |  |
| 8. | a. Part Master->Part Transfer In  b. Business Unit->Part Transfer In  c. Drawer->Part Transfer In |  |
| 9. | a. Sub Category->Part Master  b. Vendor->Part Master  c. Maker->Part Master |  |
| 10. | a. Part Master->Part Maker  b. Maker->Part Maker |  |

**3.0 Create Table Script**

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| --- | --- | --- |
| **No.** | **Table Name** | **Script** |
| 1 | Authority |  |
| 2. | Business Unit |  |
| 3. | Cabinet |  |
| 4. | Cost Centre |  |
| 5. | Drawer |  |
| 6. | Main Category |  |
| 7. | Maker |  |
| 8. | Part Inventory |  |
| 9. | Part Maker |  |
| 10. | Part Master |  |
| 11 | Part Transfer In |  |
| 12. | Part Transfer Out |  |
| 13. | Part Vendor |  |
| 14. | Plant |  |
| 15. | Section |  |
| 16. | Status Request |  |
| 17. | Store |  |
| 18. | Sub Category |  |
| 19. | Vendor |  |

**4.0 User Interface (Main Navigation) – Sample**