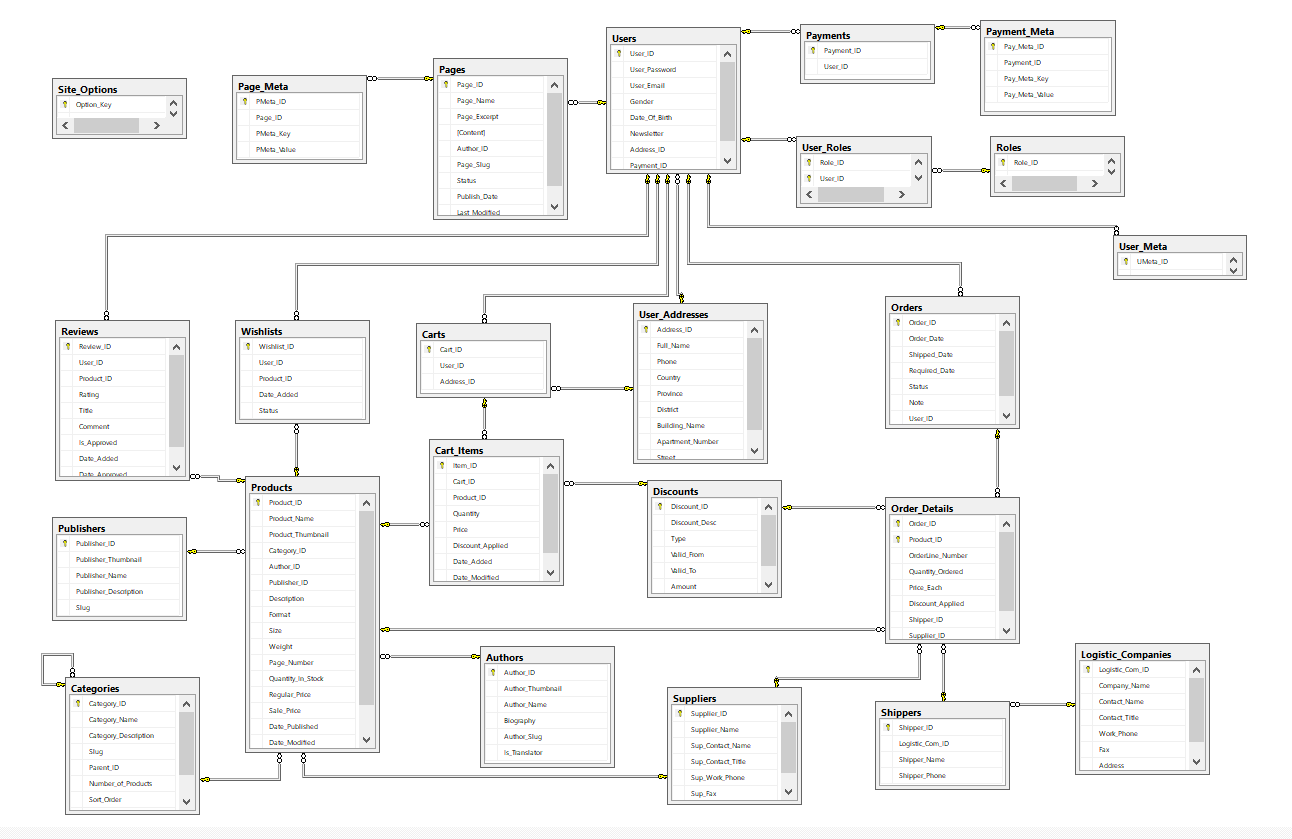
# **DATABASE SCHEME**



1. Definition tables

* Table: Product

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Types | Check | Default/Key/Constraint |
| Product\_ID | VARCHAR(255) | NOT NULL | PK |
| Product\_Name | NVARCHAR(255) | NOT NULL |  |
| Product\_Thumbnail | VARCHAR(255) |  |  |
| Category\_ID | VARCHAR(255) |  | FK, REFERENCES Categories(Category\_ID) |
| Author\_ID | VARCHAR(255) | NOT NULL | FK, REFERENCES Authors(Author\_ID) |
| Publisher\_ID | VARCHAR(255) |  | FK, REFERENCES Publisher(Publisher\_ID) |
| Description | NTEXT |  |  |
| Format | VARCHAR(40) |  |  |
| Size | FLOAT |  |  |
| Wight | FLOAT |  |  |
| Page\_Number | INT | NOT NULL |  |
| Quantity\_In\_Stock | INT | NOT NULL |  |
| Regular\_Price | DECIMAL | NOT NULL |  |
| Sale\_Price | DECIMAL | NOT NULL |  |
| Date\_Published | DATETIME |  |  |
| Date\_ModiFied | DATETIME | NOT NULL |  |
| Supplier\_ID | INT |  | FK, REFERENCES Suppilers(Supplier\_ID) |

* Example:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Product\_ID | Product\_Name | Product\_Thumbnail | Author\_ID | Publisher\_ID | Description | Format | Size |
|  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Wight | Page\_Number | Quantity\_In\_Stock | Regular\_Price | Sale\_Price | Date\_Published | Date\_ModiFied | Supplier\_ID |
|  |  |  |  |  |  |  |  |

* Create table statement:

|  |
| --- |
|  |

* Table: Users

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Types | Check | Default/Key/Constraint |
| User\_ID | BIGINT | NOT NULL | PK |
| User\_Password | NVARCHAR(20) |  |  |
| User\_Email | NVARCHAR(20) |  |  |
| Gender | VARCHAR(6) | NOT NULL  IN(‘Male’, ‘Female’) |  |
| DateOfBirth | DATE |  |  |
| NewLetter | NVARCHAR(30 |  |  |
| Address\_ID | BIGINT | NOT NULL | FK, REFERENCES User\_Addresses(Address\_ID) |
| Payment\_ID | BIGINT | NOT NULL | FK, REFWRENCES Payments(Payment\_ID) |

* Example:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| User\_ID | User\_Password | User\_Email | Gender | DateOfBirth | NewLetter | Address\_ID | Payment\_ID |
|  |  |  |  |  |  |  |  |

* Create table statement:

|  |
| --- |
|  |

* Table: User\_Meta

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Types | Check | Default/Key/Constraint |
| UMeta\_ID | BIGINT | NOT NULL | PK |
| User\_ID | BIGINT | NOT NULL | FK, REFERENCES Users(User\_ID) |
| UMeta\_Key | VARCHAR(255) |  |  |
| UMeta\_Value | NTEXT |  |  |

* Example:

|  |  |  |  |
| --- | --- | --- | --- |
| UMeta\_ID | User\_ID | UMeta\_Key | UMeta\_Value |
|  |  |  |  |

* Create table statement:

|  |
| --- |
|  |

* Table: User\_Addresses

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Types | Check | Default/Key/Constraint |
| Address\_ID | BIGINT | NOT NULL | PK |
| User\_ID | BIGINT | NOT NULL | FK, REFERENCES Users(User\_ID) |
| Full\_Name | NVARCHAR(100) | NOT NULL |  |
| Phone | VARCHAR(12) | NOT NULL |  |
| Country | NVARCHAR(100) | NOT NULL |  |
| Province | NVARCHAR(150) | NOT NULL |  |
| District | NVARCHAR(255) |  |  |
| Building\_Name | NVARCHAR(255) |  |  |
| Apartment\_Number | NVARCHAR(255) |  |  |
| Stress | NVARCHAR(255) |  |  |

* Example:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Address\_ID | User\_ID | Full\_Name | Phone | Country |
|  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Province | District | Building\_Name | Apartment\_Number | Stress |
|  |  |  |  |  |

* Create table statement:

|  |
| --- |
|  |

* Table: Payments

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Types | Check | Default/Key/Constraint |
| Payment\_ID | BIGINT | NOT NULL | PK |
| User\_ID | BIGINT | NOT NULL | FK, REFERENCES Users(User\_ID) |

* Example:

|  |  |
| --- | --- |
| Payment\_ID | User\_ID |
|  |  |

* Create table statement:

|  |
| --- |
|  |

* Table: Payment\_Meta

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Types | Check | Default/Key/Constraint |
| Pay\_Meta\_ID | VARCHAR(255) | NOT NULL | PK |
| Payment\_ID | BIGINT | NOT NULL | FK, REFERENCES Payments(Payment\_ID) |
| Pay\_Meta\_Key | VARCHAR(255) |  |  |
| Pay\_Meta\_Value | NTEXT |  |  |

* Example:

|  |  |  |  |
| --- | --- | --- | --- |
| Pay\_Meta\_ID | Payment\_ID | Pay\_Meta\_Key | Pay\_Meta\_Value |
|  |  |  |  |

* Create table statement:

|  |
| --- |
|  |

* Table: Categories

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Types | Check | Default/Key/Constraint |
| Category\_ID | VARCHAR(255) | NOT NULL | PK |
| Category\_Name | NVARCHAR(255) |  |  |
| Category\_Description | NTEXT |  |  |
| Slug | VARCHAR(255) | NOT NULL |  |
| Parent\_ID | VARCHAR(255) | NOT NULL | FK, REFERENCES Categories(Category\_ID) |
| Number\_Of\_Product | BIGINT |  |  |
| Sort\_Order | INT | NOT NULL |  |
| Date\_Added | DATETIME |  |  |
| Date\_Modified | DATETIME |  |  |

* Example:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Category\_ID | Category\_Name | Category\_Description | Slug | Parent\_ID |
|  |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Number\_Of\_Product | Sort\_Order | Date\_Added | Date\_Modified |
|  |  |  |  |

* Create table statement:

|  |
| --- |
|  |

* Table: Author

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Types | Check | Default/Key/Constraint |
| Author\_ID | VARCHAR(255) | NOT NULL | PK |
| Author\_Thumbnail | NVARCHAR(255) |  |  |
| Author\_Name | NVARCHAR(100) | NOT NULL |  |
| Biography | NTEXT |  |  |
| Author\_Slug | NVARCHAR(255) | NOT NULL |  |
| Is\_Translator | BIT | NOT NULL | Default 0 |

* Example:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Author\_ID | Author\_Thumbnail | Author\_Name | Biography | Author\_Slug | Is\_Translator |
|  |  |  |  |  |  |

* Create table statement:

|  |
| --- |
|  |

* Table: Publishers

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Types | Check | Default/Key/Constraint |
| Publisher\_ID | VARCHAR(255) | NOT NULL | PK |
| Publisher\_Thumbnail | VARCHAR(255) |  |  |
| Publisher \_Name | NVARCHAR(50) |  |  |
| Description | NTEXT |  |  |
| Slug | NVARCHAR(255) | NOT NULL |  |

* Example:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Publisher\_ID | Publisher\_Thumbnail | Publisher\_Name | Description | Slug |
|  |  |  |  |  |

* Create table statement:

|  |
| --- |
|  |

* Table: Pages

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Types | Check | Default/Key/Constraint |
| Page\_ID | BIGINT | NOT NULL | PK |
| Page\_Name | BIGINT | NOT NULL |  |
| Page\_Excerpt | INT |  |  |
| Content | INT |  |  |
| Author\_ID | BIGINT |  | FK, REFERENCES |
| Page\_Slug | VARCHAR(255) | NOT NULL |  |
| Status | VARCHAR(20) |  |  |
| Publish\_Date | DATETIME |  |  |
| Last\_Modified | DATETIME | NOT NULL |  |

* Example:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Page\_ID | Page\_Name | Page\_Excerpt | Content | Publish\_Date | Last\_Modified |
|  |  |  |  |  |  |

* Create table statement:

|  |
| --- |
|  |

* Table: Review

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Types | Check | Default/Key/Constraint |
| Review\_ID | BIGINT | NOT NULL | PK, IDENTITY |
| User\_ID | BIGINT | NOT NULL | FK, REFERENCES Users(User\_ID) |
| Product\_ID | BIGINT | NOT NULL | FK REFERENCES Products(Product\_ID) |
| Rating | INT |  |  |
| Title | NTEXT |  |  |
| Comment | NVARCHAR(250) |  |  |
| Is\_Approved | BIT | NOT NULL |  |
| Date\_Added | DATETIME |  |  |
| Date\_Approved | DATETIME |  |  |

* Example:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Review\_ID | User\_ID | Product\_ID | Rating | Title | Comment | Is\_Approved | Date\_Added | Date\_Approved |
|  |  |  |  |  |  |  |  |  |

* Create table statement:

|  |
| --- |
|  |

* Table: Orders

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Types | Check | Default/Key/Constraint |
| Order\_ID | BIGINT | NOT NULL | PK |
| Order\_Date | DATE |  |  |
| Shipped\_Date | DATE |  |  |
| Required\_Date | DATE |  |  |
| Status | NVARCHAR(250) |  |  |
| Note | NVARCHAR(250) |  |  |
|  | BIGINT | NOT NULL | FK, REFERENCES Users(User\_ID) |

* Example:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Order\_ID | Order\_Date | Shipped\_Date | Required\_Date | Status | Note | User\_ID |
|  |  |  |  |  |  |  |

* Create table statement:

|  |
| --- |
|  |

* Table: OrderDetail

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Types | Check | Default/Key/Constraint |
| Order\_ID | BIGINT | NOT NULL | PK,FK, REFERENCES Orders(Order\_ID) |
| Product\_ID | VARCHAR(255) | NOT NULL | PK |
| OrderLine\_Number | INT | NOT NULL | Default 0 |
| Quantity\_Ordered | INT | NOT NULL |  |
| Price\_Each | MONEY | NOT NULL |  |
| Discount\_Applied | VARCHAR(255) |  | FK, REFERENCES Discount(Discount\_ID) |
| Shipper\_ID | BIGINT | NOT NULL | FK, REFERENCES Shippers(Shipper\_ID) |
| Supplier\_ID | INT | NOT NULL | FK, REFERENCES Suppliers(Supplier\_ID) |

* Example:

|  |  |  |  |
| --- | --- | --- | --- |
| Order\_ID | Quantity\_Ordered | Price\_Each | OrderLine\_Number |
|  |  |  |  |

* Create table statement:

|  |
| --- |
|  |

* Table: Logistic\_Companies

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Types | Check | Default/Key/Constraint |
| Logistic\_Com\_ID | INT | NOT NULL | PK |
| Compant\_Name | NVARCHAR(50) | NOT NULL |  |
| Contact\_Name | NVARCHAR(30) |  |  |
| Contact\_Title | NVARCHAR(30) |  |  |
| Work\_Phone | VARCHAR(12) |  |  |
| Fax | NVARCHAR(24) |  |  |
| Address | NVARCHAR(255) |  |  |

* Example:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Logistic\_Com\_ID | Compant\_Name | Contact\_Name | Contact\_Title | Work\_Phone | Fax | Address |
|  |  |  |  |  |  |  |

* Create table statement:

|  |
| --- |
|  |

* Table: Shippers

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Types | Check | Default/Key/Constraint |
| Shipper\_ID | BIGINT | NOT NULL | PK |
| ShipCompany\_ID | INT | NOT NULL | FK, REFERENCES ShipCompany(ShipCompany\_ID) |
| Shipper\_Name | NVARCHAR(50) |  |  |
| Shipper\_Phone | INT |  |  |

* Example:

|  |  |  |  |
| --- | --- | --- | --- |
| ShipCompany\_ID | Shipper\_ID | Shipper\_Name | Shipper\_Phone |
|  |  |  |  |

* Create table statement:

|  |
| --- |
|  |

* Table: Discounts

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Types | Check | Default/Key/Constraint |
| Discount\_ID | VARCHAR(255) | NOT NULL | PK |
| Discount\_Desc | NTEXT |  |  |
| Type | NVARCHAR(255) |  |  |
| Valid\_From | DATETIME |  |  |
| Valid\_To | DATETIME |  |  |
| Amount\_Percent | FLOAT |  |  |

* Example:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Discount\_ID | Discount\_Desc | Type | Valid\_From | Valid\_To | Amount\_Percent |
|  |  |  |  |  |  |

* Create table statement:

|  |
| --- |
|  |

* Table: Roles

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Types | Check | Default/Key/Constraint |
| Role\_ID | VARCHAR(10) | NOT NULL | PK |
| Role\_Name | NVARCHAR(100) | NOT NULL |  |

* Example:

|  |  |
| --- | --- |
| Role\_ID | Role\_Name |
|  |  |

* Create table statement:

|  |
| --- |
|  |

* Table: User\_Roles

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Types | Check | Default/Key/Constraint |
| Role\_ID | VARCHAR(10) | NOT NULL | PK, FK, REFERENCES Roles(Role\_ID) |
| User\_ID | BIGINT | NOT NULL | PK, FK, REFERENCES Users(User\_ID) |

* Example:

|  |  |
| --- | --- |
| Role\_ID | User\_ID |
|  |  |

* Create table statement:

|  |
| --- |
|  |

* Table: Site\_Options

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Types | Check | Default/Key/Constraint |
| Option\_Key | VARCHAR(255) | NOT NULL | PK |
| Option\_Value | NTEXT | NOT NULL |  |

* Example:

|  |  |
| --- | --- |
| Option\_Key | Option\_Value |
|  |  |

* Create table statement:

|  |
| --- |
|  |

* Table: Suppliers

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Types | Check | Default/Key/Constraint |
| Supplier\_ID | INT | NOT NULL | PK |
| Supplier\_Name | NVARCHAR(100) | NOT NULL |  |
| Sup\_Contact\_Name | NVARCHAR(30) |  |  |
| Sup\_Contact\_Title | NVARCHAR(30) |  |  |
| Sup\_Work\_Phone | VARCHAR(12) |  |  |
| Sup\_Fax | NVARCHAR(24) |  |  |

* Example:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Supplier\_ID | Supplier\_Name | Sup\_Contact\_Name | Sup\_Contact\_Title | Sup\_Work\_Phone | Sup\_Fax |
|  |  |  |  |  |  |

* Create table statement:

|  |
| --- |
|  |

* Table: Carts

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Types | Check | Default/Key/Constraint |
| Cart\_ID | BIGINT | NOT NULL | PK, IDENTITY |
| User\_ID | BIGINT | NOT NULL | FK, REFERENCES Users(User\_ID) |
| Address\_ID | BIGINT | NOT NULL | FK, REFERENCES User\_Addresses(Address\_ID) |

* Example:

|  |  |  |
| --- | --- | --- |
| Cart\_ID | User\_ID | Address\_ID |
|  |  |  |

* Create table statement:

|  |
| --- |
|  |

* Table: Carts

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Types | Check | Default/Key/Constraint |
| Item\_ID | BIGINT | NOT NULL | PK, IDENTITY |
| Cart\_ID | BIGINT | NOT NULL | FK, REFERENCES Carts(Cart\_ID) |
| Product\_ID | VARCHAR(255) | NOT NULL | FK, REFERENCES Products(Product\_ID) |
| Quantity | INT | NOT NULL |  |
| Price | DECIMAL(19, 2) | NOT NULL | Default 0 |
| Discount\_Applied | VARCHAR(255) |  | FK, REFERENCES Discounts(Discount\_ID) |
| Date\_Added | DATETIME |  |  |
| Date\_Modified | DATETIME |  |  |

* Example:

|  |  |  |
| --- | --- | --- |
| Cart\_ID | User\_ID | Address\_ID |
|  |  |  |

* Create table statement:

|  |
| --- |
|  |

* Table: Withlists

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute | Data Types | Check | Default/Key/Constraint |
| Withlist\_ID | BIGINT | NOT NULL | PK, IDENTITY |
| User\_ID | BIGINT | NOT NULL | FK, REFERENCES Users(User\_ID) |
| Product\_ID | VARCHAR(255) | NOT NULL | FK, REFERENCES Products(Product\_ID) |
| Date\_Added | DATETIME | NOT NULL |  |
| Status | NVARCHAR(20) | NOT NULL | Default 0 |

* Example:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Withlist\_ID | User\_ID | Product\_ID | Date\_Added | Status |
|  |  |  |  |  |

* Create table statement:

|  |
| --- |
|  |