**1. User Table**

| **Column Name** | **Data Type** | **Description** |
| --- | --- | --- |
| **id** | **AutoField** | **Primary Key** |
| **email** | **CharField** | **Login email** |
| **password** | **CharField** | **Encrypted password** |
| **role** | **CharField** | **"Admin" or "Staff"** |
| **is\_active** | **BooleanField** | **Account active status** |
| **date\_joined** | **DateTimeField** | **User registration date** |

**2. Category Table**

| **Column Name** | **Data Type** | **Description** |
| --- | --- | --- |
| **id** | **AutoField** | **Primary Key** |
| **name** | **CharField** | **Category name** |

**3. SubCategory Table**

| **Column Name** | **Data Type** | **Description** |
| --- | --- | --- |
| **id** | **AutoField** | **Primary Key** |
| **name** | **CharField** | **Subcategory name** |
| **category\_id** | **ForeignKey** | **Linked to Category table** |

**4. Purchase Table**

| **Column Name** | **Data Type** | **Description** |
| --- | --- | --- |
| **id** | **AutoField** | **Primary Key** |
| **product\_name** | **CharField** | **Product name** |
| **category\_id** | **ForeignKey** | **Linked to Category** |
| **subcategory\_id** | **ForeignKey** | **Linked to SubCategory** |
| **quantity** | **IntegerField** | **Purchased quantity** |
| **product\_rate** | **DecimalField** | **Rate per unit** |
| **sale\_rate** | **DecimalField** | **Selling price per unit** |
| **mrp** | **DecimalField** | **Maximum retail price** |
| **total\_rate** | **DecimalField** | **quantity × product\_rate** |
| **date** | **DateField** | **Purchase date** |
| **notes** | **TextField** | **Optional notes** |

**5. Discount Table**

| **Column Name** | **Data Type** | **Description** |
| --- | --- | --- |
| **id** | **AutoField** | **Primary Key** |
| **product\_id** | **ForeignKey** | **Linked to Purchase table** |
| **discount\_percent** | **FloatField** | **Discount % for the product** |

**6. Invoice Table**

| **Column Name** | **Data Type** | **Description** |
| --- | --- | --- |
| **id** | **AutoField** | **Primary Key** |
| **customer\_name** | **CharField** | **Name of the customer** |
| **customer\_phone** | **CharField** | **Phone number** |
| **customer\_address** | **TextField** | **Customer address** |
| **total\_amount** | **DecimalField** | **Final invoice amount** |
| **total\_discount** | **DecimalField** | **Total discount applied** |
| **gst\_amount** | **DecimalField** | **GST amount** |
| **round\_off** | **DecimalField** | **Final round off** |
| **date** | **DateField** | **Invoice date** |
| **user\_id** | **ForeignKey** | **Linked to User (who created invoice)** |

**7. InvoiceItem Table**

| **Column Name** | **Data Type** | **Description** |
| --- | --- | --- |
| **id** | **AutoField** | **Primary Key** |
| **invoice\_id** | **ForeignKey** | **Linked to Invoice table** |
| **product\_id** | **ForeignKey** | **Linked to Purchase table** |
| **quantity** | **IntegerField** | **Quantity sold** |
| **rate** | **DecimalField** | **Selling rate** |
| **discount** | **DecimalField** | **Discount applied** |
| **total\_price** | **DecimalField** | **(rate × quantity) − discount** |
| **category\_id** | **ForeignKey** | **Linked to Category** |
| **subcategory\_id** | **ForeignKey** | **Linked to SubCategory** |

**8. Transaction Table**

| **Column Name** | **Data Type** | **Description** |
| --- | --- | --- |
| **id** | **AutoField** | **Primary Key** |
| **type** | **CharField** | **"Income" or "Expense"** |
| **amount** | **DecimalField** | **Transaction amount** |
| **source** | **CharField** | **Description (e.g. invoice, expense)** |
| **date** | **DateField** | **Transaction date** |
| **linked\_invoice** | **ForeignKey** | **(Optional) Linked to Invoice** |

**9.Product Table**

| **Field Name** | **Data Type** | **Description** |
| --- | --- | --- |
| **id** | **AutoField (PK)** | **Primary key – unique identifier for each product** |
| **purchase** | **ForeignKey** | **Link to the Purchase table (contains product details)** |
| **category** | **ForeignKey** | **(Optional) Redundant link to Category table** |
| **subcategory** | **ForeignKey** | **(Optional) Redundant link to SubCategory table** |
| **stock\_quantity** | **IntegerField** | **Current quantity available in stock** |
| **selling\_price** | **DecimalField** | **Final price after applying all pricing logic** |
| **discount** | **ForeignKey** | **Link to Discount table to apply pre-defined discount** |