ER Diagram Tables

Product Table

| Field | Type | Description |
| --- | --- | --- |
| id | INT | Primary Key, Auto Increment |
| title | VARCHAR(255) | Title of the product |
| description | TEXT | Description of the product |
| cost | DECIMAL | Cost of the product |
| quantity | INT | Available quantity |
| image\_url | VARCHAR(255) | URL of the product image |
| category\_id | INT | Foreign Key referencing Category |

Category Table

| Field | Type | Description |
| --- | --- | --- |
| id | INT | Primary Key, Auto Increment |
| name | VARCHAR(255) | Name of the category |
| description | TEXT | Description of the category |

User Table

| Field | Type | Description |
| --- | --- | --- |
| id | INT | Primary Key, Auto Increment |
| first\_name | VARCHAR(255) | First name of the user |
| last\_name | VARCHAR(255) | Last name of the user |
| phone\_number | VARCHAR(20) | Phone number of the user |
| email | VARCHAR(255) | Email of the user |
| address | TEXT | Address of the user |
| password\_hash | VARCHAR(255) | Hashed password of the user |
| role | VARCHAR(50) | Role of the user (e.g., admin) |

Order Table

| Field | Type | Description |
| --- | --- | --- |
| id | INT | Primary Key, Auto Increment |
| user\_id | INT | Foreign Key referencing User |
| total\_amount | DECIMAL | Total amount of the order |
| status | VARCHAR(50) | Status of the order (e.g., pending, completed) |
| created\_at | TIMESTAMP | Order creation timestamp |
| updated\_at | TIMESTAMP | Order update timestamp |

OrderItem Table

| Field | Type | Description |
| --- | --- | --- |
| id | INT | Primary Key, Auto Increment |
| order\_id | INT | Foreign Key referencing Order |
| product\_id | INT | Foreign Key referencing Product |
| quantity | INT | Quantity of the product in the order |
| unit\_price | DECIMAL | Unit price of the product at the time of order |

Cart Table

| Field | Type | Description |
| --- | --- | --- |
| id | INT | Primary Key, Auto Increment |
| user\_id | INT | Foreign Key referencing User |
| created\_at | TIMESTAMP | Cart creation timestamp |
| updated\_at | TIMESTAMP | Cart update timestamp |

CartItem Table

| Field | Type | Description |
| --- | --- | --- |
| id | INT | Primary Key, Auto Increment |
| cart\_id | INT | Foreign Key referencing Cart |
| product\_id | INT | Foreign Key referencing Product |
| quantity | INT | Quantity of the product in the cart |

Relationships

Product belongs to Category

Category has many Products

User has many Orders

Order belongs to User

Order has many OrderItems

OrderItem belongs to Order

OrderItem belongs to Product

Cart belongs to User

Cart has many CartItems

CartItem belongs to Cart

CartItem belongs to Product