**erDiagram**

**USERS ||--o{ ORDERS : places**

**USERS ||--o{ CART : has**

**USERS ||--o{ CUSTOMER\_ADDRESSES : has**

**USERS ||--o{ INVENTORY\_TRANSACTIONS : performs**

**USERS ||--o{ SALES : processes**

**PRODUCTS ||--o{ ORDER\_ITEMS : includes**

**PRODUCTS ||--o{ CART : contains**

**PRODUCTS ||--o{ INVENTORY\_TRANSACTIONS : affects**

**PRODUCTS ||--o{ PRODUCT\_PROMOTIONS : has**

**ORDERS ||--|{ ORDER\_ITEMS : contains**

**ORDERS ||--|| SALES : generates**

**PROMOTIONS ||--|{ PRODUCT\_PROMOTIONS : applies\_to**

**USERS {**

**int user\_id PK**

**string username**

**string email**

**string password\_hash**

**string first\_name**

**string last\_name**

**enum role**

**timestamp created\_at**

**timestamp updated\_at**

**}**

**PRODUCTS {**

**int product\_id PK**

**string name**

**text description**

**decimal price**

**int stock\_quantity**

**string category**

**string image\_url**

**timestamp created\_at**

**timestamp updated\_at**

**}**

**ORDERS {**

**int order\_id PK**

**int user\_id FK**

**decimal total\_amount**

**enum status**

**timestamp created\_at**

**timestamp updated\_at**

**}**

**ORDER\_ITEMS {**

**int order\_item\_id PK**

**int order\_id FK**

**int product\_id FK**

**int quantity**

**decimal price\_per\_unit**

**}**

**CART {**

**int cart\_id PK**

**int user\_id FK**

**int product\_id FK**

**int quantity**

**timestamp added\_at**

**}**

**INVENTORY\_TRANSACTIONS {**

**int transaction\_id PK**

**int product\_id FK**

**int quantity\_change**

**enum transaction\_type**

**timestamp transaction\_date**

**int user\_id FK**

**}**

**SALES {**

**int sale\_id PK**

**int order\_id FK**

**int cashier\_id FK**

**decimal total\_amount**

**enum payment\_method**

**timestamp sale\_date**

**}**

**PROMOTIONS {**

**int promotion\_id PK**

**string name**

**text description**

**decimal discount\_percentage**

**date start\_date**

**date end\_date**

**timestamp created\_at**

**timestamp updated\_at**

**}**

**PRODUCT\_PROMOTIONS {**

**int product\_promotion\_id PK**

**int product\_id FK**

**int promotion\_id FK**

**}**

**CUSTOMER\_ADDRESSES {**

**int address\_id PK**

**int user\_id FK**

**string address\_line1**

**string address\_line2**

**string city**

**string state**

**string postal\_code**

**string country**

**boolean is\_default**

**}**