

@startuml

!theme plain

left to right direction

entity Users {

+int: user_id PK

--

string: name

string: email

string: password_hash

string: phone

text: address

json: preferences

datetime: created_at

}

entity Products {

+int: product_id PK

--

string: name

text: description

decimal: price

int: category_id FK

int: stock

string: size

text: image_url

```
    boolean: created_by_ai
    datetime: created_at
}
```

```
entity Categories {
  +int: category_id    PK
  --
  string: name
}
```

```
entity Orders {
  +int: order_id      PK
  --
  int: user_id        FK
  decimal: total_amount
  string: payment_type
  string: status
  datetime: created_at
}
```

```
entity Order_Items {
  +int: order_item_id  PK
  --
  int: order_id        FK
  int: product_id      FK
  int: quantity
}
```

```
    decimal: price_at_time
}
```

```
entity Promos {
  +int: promo_id      PK
  --
  string: code
  decimal: discount
  datetime: valid_from
  datetime: valid_to
  int: usage_limit
}
```

```
entity AI_Logs {
  +int: log_id      PK
  --
  int: user_id      FK
  string: module_name
  text: input
  text: response
  datetime: created_at
}
```

```
entity Images {
  +int: image_id      PK
  --
```

```
int: product_id    FK
text: image_url
json: feature_data
string: angle
}
```

```
entity Reviews {
  +int: review_id    PK
  --
  int: user_id       FK
  int: product_id    FK
  int: rating
  text: review_text
  string: sentiment
  datetime: created_at
}
```

```
entity Cart {
  +int: cart_id      PK
  --
  int: user_id       FK
  int: product_id    FK
  int: quantity
  datetime: added_at
}
```

```
entity Wishlist {  
  +int: wishlist_id    PK  
  --  
  int: user_id        FK  
  int: product_id     FK  
  datetime: added_at  
}
```

```
entity Addresses {  
  +int: address_id    PK  
  --  
  int: user_id        FK  
  string: recipient_name  
  string: phone  
  text: address_line  
  string: city  
  string: postal_code  
  string: country  
  bool: is_default  
  datetime: created_at  
}
```

```
entity Shipping {  
  +int: shipping_id   PK  
  --  
  int: order_id       FK
```

```
string: tracking_number
string: carrier
string: status
datetime: shipped_at
datetime: delivered_at
}
```

```
entity Returns {
  +int: return_id      PK
  --
  int: order_id        FK
  int: product_id      FK
  string: reason
  string: status
  datetime: requested_at
}
```

```
entity AuditLogs {
  +int: log_id          PK
  --
  int: user_id          FK
  string: action
  string: table_name
  text: details
  datetime: created_at
}
```

' Relationships

Users ||--o{ Orders

Users ||--o{ Reviews

Users ||--o{ AI_Logs

Users ||--o{ Cart

Users ||--o{ Wishlist

Users ||--o{ Addresses

Users ||--o{ AuditLogs

Products ||--o{ Cart

Products ||--o{ Wishlist

Products ||--o{ Order_Items

Products ||--o{ Reviews

Products ||--o{ Images

Orders ||--o{ Order_Items

Orders ||--o{ Shipping

Orders ||--o{ Returns

Categories ||--o{ Products

@enduml

