

Advanced Databases

INZ000109P

Project

Assignment 3 - Database model (dev.)

Group: A2

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// I created a user as a MUTABAY. That's why I used as a prefix before table name

1. Brand Table

```
CREATE TABLE MUTABAY.brands(  
    brand_id INT PRIMARY KEY,  
    brand_name VARCHAR (100) NOT NULL  
);
```

2. Categories Table

```
CREATE TABLE MUTABAY.categories(  
    category_id INT PRIMARY KEY,  
    category_name VARCHAR (100) NOT NULL  
);
```

3. Products Table

```
CREATE TABLE MUTABAY.products(  
    product_id INT PRIMARY KEY,  
    product_name VARCHAR(100) NOT NULL,  
    brand_id INT NOT NULL,  
    category_id INT NOT NULL,  
    model_year INT NOT NULL,  
    list_price DECIMAL (10, 2) NOT NULL,  
    FOREIGN KEY(category_id) REFERENCES MUTABAY.categories(category_id) ON DELETE CASCADE,  
    FOREIGN KEY(brand_id) REFERENCES MUTABAY.brands(brand_id) ON DELETE CASCADE  
);
```

4. Customers Table

```
CREATE TABLE MUTABAY.customers(  
    customer_id INT PRIMARY KEY,  
    first_name VARCHAR(100) NOT NULL,  
    last_name VARCHAR(100) NOT NULL,  
    phone VARCHAR(100),  
    email VARCHAR(100) NOT NULL,  
    street VARCHAR(255),  
    city VARCHAR(255),  
    state VARCHAR(255),  
    zip_code VARCHAR(50)  
);
```

5. Stores Table

```
CREATE TABLE MUTABAY.stores(  
    store_id INT PRIMARY KEY,  
    store_name VARCHAR(255) NOT NULL,  
    phone VARCHAR(100),  
    email VARCHAR(100),  
    street VARCHAR(255),  
    city VARCHAR(255),  
    state VARCHAR(255),  
    zip_code VARCHAR(50)
```

6. Staffs Table

```
CREATE TABLE MUTABAY.staffs(  
    staff_id INT PRIMARY KEY,  
    first_name VARCHAR(255) NOT NULL,  
    last_name VARCHAR(255) NOT NULL,  
    phone VARCHAR(100),  
    email VARCHAR(100) NOT NULL,  
    store_id INT NOT NULL,  
    manager_id INT,  
    active NUMBER(3,0) NOT NULL,  
    FOREIGN KEY(store_id) REFERENCES MUTABAY.stores(store_id) ON DELETE CASCADE ,  
    FOREIGN KEY(manager_id) REFERENCES MUTABAY.staffs(staff_id)  
);
```

7. Orders Table

```
CREATE TABLE MUTABAY.orders(  
    order_id INT PRIMARY KEY,  
    customer_id INT,  
    order_status NUMBER(3,0),  
    -- Order status: 1 = Pending; 2 = Processing; 3 = Rejected; 4 = Completed  
    order_date VARCHAR2(20) NOT NULL,  
    required_date VARCHAR2(20) NOT NULL,  
    shipped_date VARCHAR2(20),  
    store_id INT NOT NULL,  
    staff_id INT NOT NULL,  
    FOREIGN KEY(customer_id) REFERENCES MUTABAY.customers(customer_id) ON DELETE CASCADE ,  
    FOREIGN KEY(store_id) REFERENCES MUTABAY.stores(store_id) ON DELETE CASCADE ,  
    FOREIGN KEY(staff_id) REFERENCES MUTABAY.staffs(staff_id)  
);
```

8. Order Items Table

```
CREATE TABLE MUTABAY.order_items(  
    order_id INT,  
    item_id INT,  
    product_id INT NOT NULL,  
    quantity_id INT NOT NULL,  
    list_price DECIMAL (10, 2) NOT NULL,  
    discount DECIMAL (10, 2) NOT NULL ,  
    PRIMARY KEY(order_id, item_id),  
    FOREIGN KEY(order_id) REFERENCES MUTABAY.orders(order_id) ON DELETE CASCADE ,  
    FOREIGN KEY(product_id) REFERENCES MUTABAY.products(product_id) ON DELETE CASCADE  
);
```

9. Stocks Table

```
CREATE TABLE MUTABAY.stocks(  
  store_id INT,  
  product_id INT,  
  quantity INT,  
  PRIMARY KEY(store_id, product_id),  
  FOREIGN KEY(store_id) REFERENCES MUTABAY.stores(store_id) ON DELETE CASCADE ,  
  FOREIGN KEY(product_id) REFERENCES MUTABAY.products(product_id) ON DELETE CASCADE  
);
```