



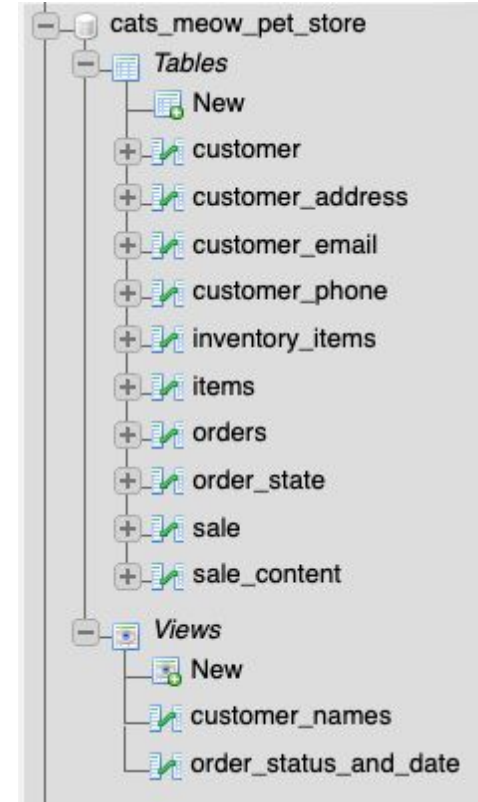
Cats Meow Pet Store Database Demo

A Very Potter SQL:

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Schema Design

- Created relevant tables for the clients data
- Key tables:
 - Customer
 - Inventory
 - Orders
- Normalizing tables
 - Customer address/ email/ phone number
 - Inventory items
 - Order status/ content/ location



Create Tables: Main



```
CREATE TABLE customer(
```

```
    CustomerID INT AUTO_INCREMENT,
```

```
    FirstName VARCHAR(256) NOT NULL,
```

```
    LastName VARCHAR(256) NOT NULL,
```

```
    PostalCode VARCHAR(6),
```

```
    PRIMARY KEY (CustomerID)
```

```
);
```

```
CREATE TABLE inventory_items(
```

```
    ItemID INT AUTO_INCREMENT,
```

```
    ItemType INT,
```

```
    Quantity INT NOT NULL,
```

```
    Price VARCHAR(256) NOT NULL,
```

```
    PRIMARY KEY (ItemID),
```

```
    FOREIGN KEY (ItemType)
```

```
        REFERENCES items(ItemType)
```

```
);
```

```
CREATE TABLE orders(
```

```
    OrderID INT AUTO_INCREMENT,
```

```
    CustomerID INT,
```

```
    OrderStatus INT,
```

```
    OrderDate TIMESTAMP NOT NULL,
```

```
    PRIMARY KEY (OrderID),
```

```
    FOREIGN KEY (CustomerID)
```

```
        REFERENCES customer(CustomerID),
```

```
    FOREIGN KEY (OrderStatus)
```

```
        REFERENCES order_state(OrderStatus)
```

Create Tables: Customer



```
CREATE TABLE customer_phone(
```

```
CustomerID INT,
```

```
PhoneNumber VARCHAR(32) NOT NULL,
```

```
FOREIGN KEY (CustomerID)
```

```
REFERENCES customer(CustomerID)
```

```
);
```

```
CREATE TABLE customer_address(
```

```
CustomerID INT,
```

```
Province VARCHAR(2) NOT NULL,
```

```
City VARCHAR(128) NOT NULL,
```

```
StreetName VARCHAR(128) NOT NULL,
```

```
StreetNumber VARCHAR(32) NOT NULL,
```

```
FOREIGN KEY (CustomerID)
```

```
REFERENCES customer(CustomerID)
```

```
);
```

```
CREATE TABLE customer_email(
```

```
CustomerID INT,
```

```
Email VARCHAR(256) NOT NULL,
```

```
FOREIGN KEY (CustomerID)
```

```
REFERENCES customer(CustomerID)
```

```
);
```

Create Tables: Inventory and Orders



```
CREATE TABLE items(
```

```
  ItemType INT AUTO_INCREMENT,
```

```
  AnimalType VARCHAR(256) NOT NULL,
```

```
  PRIMARY KEY (ItemType)
```

```
);
```

```
CREATE TABLE order_state(
```

```
  OrderStatus INT AUTO_INCREMENT,
```

```
  Description VARCHAR(256) NOT NULL,
```

```
  PRIMARY KEY (OrderStatus)
```

```
);
```

```
CREATE TABLE sale(
```

```
  SaleID INT AUTO_INCREMENT,
```

```
  Description VARCHAR(256) NOT NULL,
```

```
  PRIMARY KEY (SaleID)
```

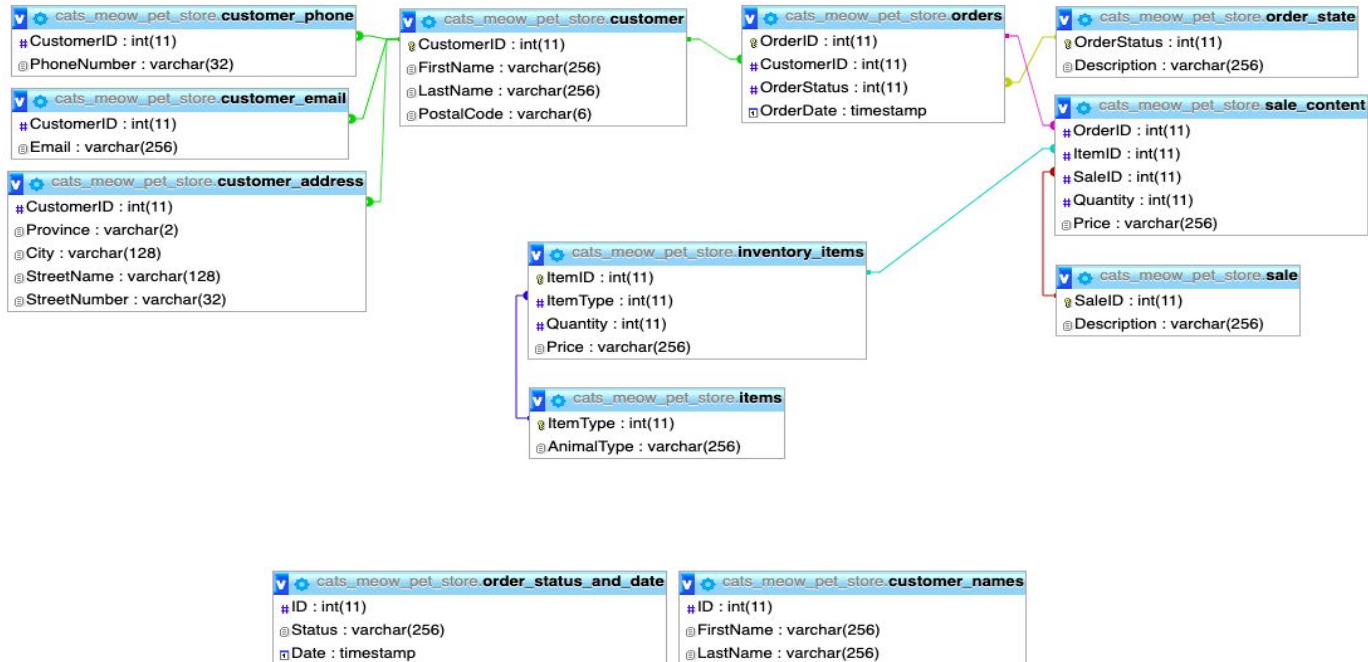
```
);
```

Create Tables: Orders



```
CREATE TABLE sale_content(  
  
    OrderID INT,  
  
    ItemID INT,  
  
    SaleID INT,  
  
    Quantity INT NOT NULL,  
  
    Price VARCHAR(256) NOT NULL,  
  
    FOREIGN KEY (OrderID) REFERENCES orders(OrderID),  
  
    FOREIGN KEY (ItemID) REFERENCES inventory_items(ItemID),  
  
    FOREIGN KEY (SaleID) REFERENCES sale(SaleID)  
  
);
```

Schema Design



API

- Utilized Views to make sure unnecessary data is not accessible
- Order_Status_and_Date
 - Order ID
 - Order Status
 - Order Date
- Customer_names
 - Customer ID
 - Customer FirstName
 - Customer LastName

```
v cats_meow_pet_store.order_status_and_date
# ID : int(11)
# Status : varchar(256)
# Date : timestamp
```

```
v cats_meow_pet_store.customer_names
# ID : int(11)
# FirstName : varchar(256)
# LastName : varchar(256)
```



```
if ($action == "getbystatus") {  
    $status = isset($_GET['status']) ? $_GET['status'] : '';  
    $from_date = isset($_GET['from_date']) ? $_GET['from_date'] : '';  
    $to_date = isset($_GET['to_date']) ? $_GET['to_date'] : '';  
    if ($status == '' or $from_date == '' or $to_date == '') { // Makes sure all parameters have an entry  
        die("Query Failed");  
    }  
}  
  
// Action for Customer name  
if ($action == "getbyname") {  
    $first_name = isset($_GET['first_name']) ? $_GET['first_name'] : '';  
    $last_name = isset($_GET['last_name']) ? $_GET['last_name'] : '';  
    if ($first_name == '' && $last_name == '') { // Makes sure at least one name is requested  
        die("Query Failed");  
    }  
}
```

```
if ($action == "getbystatus") {  
    $sql = "SELECT * FROM Order_Status_and_Date WHERE Status = \"\" . $status . "\"" AND Date BETWEEN \"\" . $from_date . "\"" AND \"\" . $to_date  
  
    // Return result  
    $db_result = $db_conn->query($sql);  
}  
  
// Customer Name:  
// Makes query request through the Customer_Names view  
if ($action == "getbyname") {  
    if ($first_name == '') {  
        // Case where last name is requested  
        $sql = "SELECT * FROM Customer_Names WHERE LastName = \"\" . $last_name . "\"";  
  
        // Return result  
        $db_result = $db_conn->query($sql);  
    }  
}
```



Demo



Get by status:

http://localhost/Cats_Meow_API/Service.php?action=getbystatus&status=Cancelled&from_date=2000-11-10&to_date=2030-11-15

http://localhost/Cats_Meow_API/Service.php?action=getbystatus&status=Delivered&from_date=2000-11-10&to_date=2030-11-15

http://localhost/Cats_Meow_API/Service.php?action=getbystatus&status=Not%20Delivered&from_date=2000-11-10&to_date=2030-11-15

Get by name:

http://localhost/Cats_Meow_API/Service.php?action=getbyname&last_name=kidby&first_name=debi

http://localhost/Cats_Meow_API/Service.php?action=getbyname&last_name=kidby

http://localhost/Cats_Meow_API/Service.php?action=getbyname&first_name=debi



Thank you!



Questions?