African Online Gift Store

Database Design
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Overview

I chose MySQL for my online gift store web app. I went for MYSQL as my web app is an e-commerce app and relational database would be a perfect fit to that since some of the tables require a relationship built among them. For instance, ordered products with available_products, to show what product is ordered by a specific client.

As we all know there are many kinds of relational databases in the market and one of them is MYSQL. MYSQL is generally faster and more efficient than other relational database management systems (RDBMS), so it is often the preferred choice for applications that require high performance.

The application will interact with the database though php. All requests made by the user on the UI that require database interaction, php will be leveraged to send the requests to the database. Such requests include GET, POST, DELETE, UPDATE & SEARCH requests.

Table Structure

Database – online Store

Tables

1. **Products:** This table will contain all the available products. Each product will have a product_id to differentiate it from another product. Since each product has a category, a category_id from category table is a foreign key in this table. That way

each product will be placed in its appropriate category. For instance Product A can be an “handmade gift” category and Product B is in “Printed Post Card” category.

2. **Orders:** All ordered made by customer will be added here with a http/php request to the database. The relationship between Products and Ordered is many to many relationship so for that reason an intermediate table, order_detail is introduced to create the relationship. See the ERD diagram below.

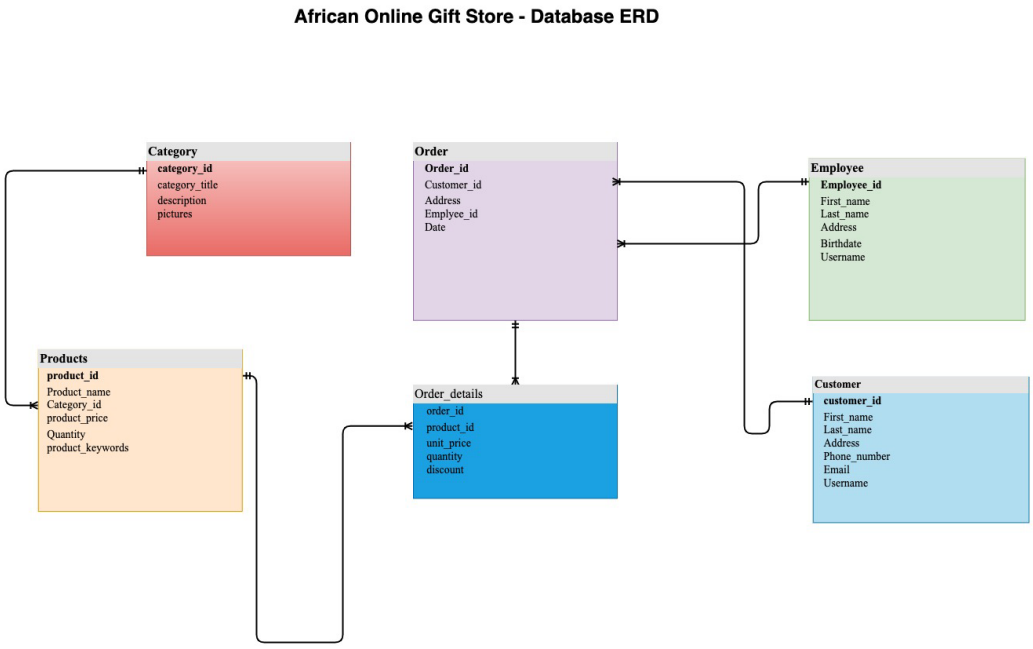
3. **Employee:** Once an order is made, a stuff member needs to take care of the order for further processing like packaging and shipping. This table is related to Order table. The relationship is one-to-many relationship as one customer can be responsible for many orders.

4. **Category:** This table for putting different products in different categories. It is related to product table via its category_id. Category_id is a foreign key in the products table. So In the categories table we will have all the available products categorized by their category_id.

5. **Customer:** This table will contain registered customers. But not only that this table is also used to identify what order is made by which customer. When products are added to a cart by a specific customer the web app should be able to identify which customer is adding the products and count them accordingly. This is where the customer_id comes in to the play.

6. **Order Details:** This an intermediate table to create to create the many to many relationship between Products and Orders table.

ERD Diagram


African Online Gift Store - Database ERD
Category
category_id
category_title
description
pictures
Order
Order_id
Customer_id
Address
Emplyee_id
Date
Employee
Employee_id
First_name
Last_name
Address
Birthdate
Username
Products
product_id
Product_name
Category_id
product_price
Quantity
product_keywords
Order_details
order_id
product_id
unit_price
quantity
discount
Customer
customer_id
First_name
Last_name
Address
Phone_number
Email
Username