

Lab: Generate Database Design with ChatGPT



Estimated time needed: 15 minutes

Introduction

In this lab, our primary objective is to empower you with the skills to create a robust and efficient database design using the innovative assistance of ChatGPT. you'll be focusing on the specific task of designing a customer database, and your goal will be to pose insightful questions to ChatGPT regarding the optimal structure and organization of this database.

Learning Objectives

After learning this lab, you should be able to perform the following tasks:

- Create a database using ChatGPT.
- Interact with ChatGPT to seek advice on database design.
- Formulate questions related to database design.

Prologue

Imagine you are tasked with developing a database for a company to manage information about its customers. The key tables you'll be working with are the following:

- **Customers:** This table is the heart of the database, where you'll store comprehensive information about each customer. Fields such as name, email, and location are crucial for building a solid foundation.
- **Locations:** To enhance the geographical understanding of your customer base, this table will include details about the customers' locations, encompassing state, country, and zip code.
- **Purchases:** Tracking the purchases made by each customer is vital for business insights. This table will include details such as the date of purchase, amount spent, and any other relevant information.

Your ultimate goal is to craft a well-structured table design that reflects the interplay between customers, locations, and purchases, ensuring an efficient and coherent database.

As you progress through this lab, your engagement with ChatGPT will guide you in refining your design, and the culmination will be a thoughtfully constructed table design for the customer database. Let's embark on this journey of database design and explore the possibilities that ChatGPT brings to the realm of information organization and management.

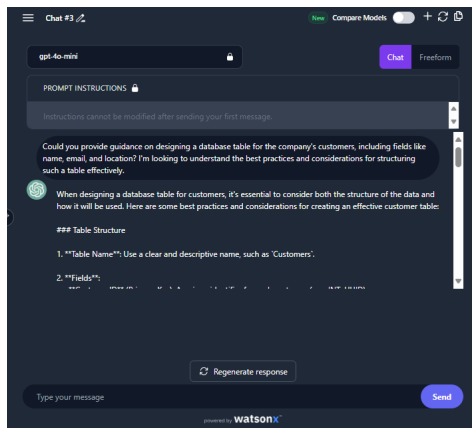
Please note Generative AI is an evolving field. As you attempt the labs, your experience and output might be different than what is seen here.

Posing Questions to ChatGPT

In case you need familiarity with the Interface/classroom please see the [Lab](#) for reference.

Once you have set up your classroom, let us pose few questions to ChatGPT to create a robust and efficient database design.

1. Please paste the following prompt or question in the **Type your message** field at the bottom of the screen asking ChatGPT to provide you guidance on designing a database table of the company's customers including fields like name, email, and location.
Could you provide guidance on designing a database table for the company's customers, including fields like name, email, and location? I'm looking to understand the best practices and considerations for structuring such a table effectively.



▼ Click here for full output of the result we got.The output produced at your end may be different.

When designing a database table for customers, it's essential to consider both the structure of the data and how it will be used. Here are some best practices and considerations for creating an effective customer table:

Table Structure

1. **Table Name:** Use a clear and descriptive name, such as *Customers*.
2. **Fields:**
 - **CustomerID** (Primary Key): A unique identifier for each customer (e.g., INT, UUID).
 - **FirstName:** The customer's first name (e.g., VARCHAR).
 - **LastName:** The customer's last name (e.g., VARCHAR).
 - **Email:** The customer's email address (e.g., VARCHAR). Consider adding a unique constraint to prevent duplicate emails.
 - **PhoneNumber:** Optional field for the customer's phone number (e.g., VARCHAR).
 - **Location:** This can be broken down further into:
 - **AddressLine1:** The primary address line (e.g., VARCHAR).

- **AddressLine2:** An optional secondary address line (e.g., VARCHAR).
- **City:** The city of the customer (e.g., VARCHAR).
- **State/Province:** The state or province (e.g., VARCHAR).
- **PostalCode:** The postal or ZIP code (e.g., VARCHAR).
- **Country:** The country of the customer (e.g., VARCHAR).
- **DateCreated:** Timestamp for when the record was created (e.g., DATETIME).
- **DateUpdated:** Timestamp for when the record was last updated (e.g., DATETIME).
- **Status:** A field to indicate if the customer is active, inactive, or archived (e.g., ENUM or VARCHAR).

Best Practices

1. **Normalization:** Ensure that your table is normalized to reduce redundancy. For example, if you have multiple addresses for a customer, consider creating a separate *Addresses* table linked by *customerID*.
2. **Data Types:** Choose appropriate data types for each field to optimize storage and performance. For example, use VARCHAR for strings, INT for integers, and DATETIME for timestamps.
3. **Indexing:** Index fields that are frequently searched or used in joins, such as *Email* and *customerID*, to improve query performance.
4. **Constraints:** Implement constraints to maintain data integrity. For example, use NOT NULL for essential fields and UNIQUE for fields like *Email*.
5. **Security:** Consider encrypting sensitive information, such as email addresses and phone numbers, especially if you're storing personal data.
6. **Scalability:** Design your table with future growth in mind. Consider how you might need to expand the schema as your business evolves.

Example SQL Statement

Here's an example SQL statement to create a *Customers* table:

```
CREATE TABLE Customers (  
  CustomerID INT PRIMARY KEY AUTO_INCREMENT,  
  FirstName VARCHAR(50) NOT NULL,  
  LastName VARCHAR(50) NOT NULL,  
  Email VARCHAR(100) NOT NULL UNIQUE,  
  PhoneNumber VARCHAR(15),  
  AddressLine1 VARCHAR(100),  
  AddressLine2 VARCHAR(100),  
  City VARCHAR(50),  
  State VARCHAR(50),  
  PostalCode VARCHAR(20),  
  Country VARCHAR(50),  
  DateCreated DATETIME DEFAULT CURRENT_TIMESTAMP,  
  DateUpdated DATETIME DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,  
  Status ENUM('Active', 'Inactive', 'Archived') DEFAULT 'Active'  
);
```

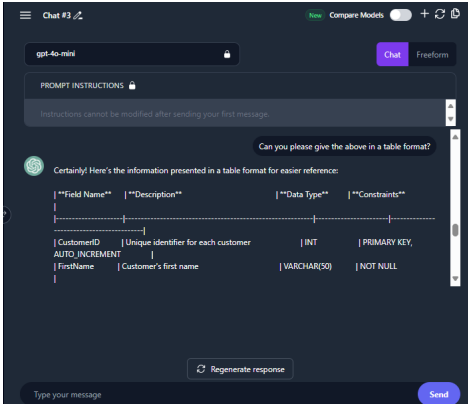
Additional Considerations

- **Data Privacy:** Ensure compliance with data protection regulations (e.g., GDPR, CCPA) when handling customer data.
- **Backup and Recovery:** Implement a backup strategy to prevent data loss.
- **Testing:** Test your database design with sample data to ensure it meets your needs.

By following these guidelines, you can create a robust and efficient customer table that supports your business operations.

Then, proceed with the following question:

Can you please give the above in a table format?



▼ Click here for full output of the result we got.The output produced at your end may be different.

Certainly! Here's the information presented in a table format for easier reference:

Field Name	Description	Data Type	Constraints
CustomerID	Unique identifier for each customer	INT	PRIMARY KEY, AUTO_INCREMENT
FirstName	Customer's first name	VARCHAR(50)	NOT NULL

Field Name	Description	Data Type	Constraints
LastName	Customer's last name	VARCHAR(50)	NOT NULL
Email	Customer's email address	VARCHAR(100)	NOT NULL, UNIQUE
PhoneNumber	Customer's phone number	VARCHAR(15)	NULLABLE
AddressLine1	Primary address line	VARCHAR(100)	NULLABLE
AddressLine2	Secondary address line (optional)	VARCHAR(100)	NULLABLE
City	City of the customer	VARCHAR(50)	NULLABLE
State	State or province	VARCHAR(50)	NULLABLE
PostalCode	Postal or ZIP code	VARCHAR(20)	NULLABLE
Country	Country of the customer	VARCHAR(50)	NULLABLE
DateCreated	Timestamp for when the record was created	DATETIME	DEFAULT CURRENT_TIMESTAMP
DateUpdated	Timestamp for when the record was last updated	DATETIME	DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP
Status	Indicates if the customer is active, inactive, or archived	ENUM('Active', 'Inactive', 'Archived')	DEFAULT 'Active'

Additional Considerations

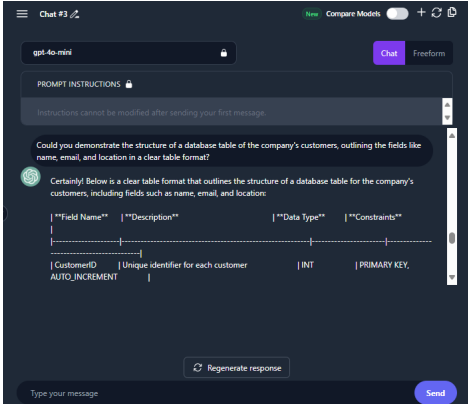
- **Data Privacy:** Ensure compliance with data protection regulations (e.g., GDPR, CCPA) when handling customer data.
- **Backup and Recovery:** Implement a backup strategy to prevent data loss.
- **Testing:** Test your database design with sample data to ensure it meets your needs.

This table format provides a clear overview of the fields, their descriptions, data types, and constraints for your customer database design.

2. Now, let us ask ChatGPT to demonstrate the structure of a database table of the company's customers, outlining fields like name, email, and location.

Could you demonstrate the structure of a database table of the company's customers, outlining the fields like name, email, and location in a clear table format?

You may see this response:



▼ Click here for full output of the result we got.The output produced at your end may be different.

Certainly! Below is a clear table format that outlines the structure of a database table for the company's customers, including fields such as name, email, and location:

Field Name	Description	Data Type	Constraints
CustomerID	Unique identifier for each customer	INT	PRIMARY KEY, AUTO_INCREMENT
FirstName	Customer's first name	VARCHAR(50)	NOT NULL
LastName	Customer's last name	VARCHAR(50)	NOT NULL
Email	Customer's email address	VARCHAR(100)	NOT NULL, UNIQUE
PhoneNumber	Customer's phone number	VARCHAR(15)	NULLABLE
AddressLine1	Primary address line	VARCHAR(100)	NULLABLE
AddressLine2	Secondary address line (optional)	VARCHAR(100)	NULLABLE
City	City of the customer	VARCHAR(50)	NULLABLE
State	State or province	VARCHAR(50)	NULLABLE
PostalCode	Postal or ZIP code	VARCHAR(20)	NULLABLE
Country	Country of the customer	VARCHAR(50)	NULLABLE
DateCreated	Timestamp for when the record was created	DATETIME	DEFAULT CURRENT_TIMESTAMP

Field Name	Description	Data Type	Constraints
DateUpdated	Timestamp for when the record was last updated	DATETIME	DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP
Status	Indicates if the customer is active, inactive, or archived	ENUM('Active', 'Inactive', 'Archived')	DEFAULT 'Active'

Additional Considerations

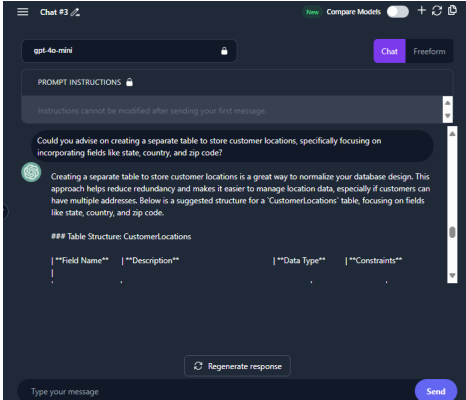
- **Data Privacy:** Ensure compliance with data protection regulations (e.g., GDPR, CCPA) when handling customer data.
- **Backup and Recovery:** Implement a backup strategy to prevent data loss.
- **Testing:** Test your database design with sample data to ensure it meets your needs.

This table clearly outlines the fields, their descriptions, data types, and constraints for your customer database design, making it easy to understand and implement.

3. Next, let us ask ChatGPT to advise you on creating a separate table to store customer locations, focusing on incorporating fields like state, country, and zip code.

Could you advise on creating a separate table to store customer locations, specifically focusing on incorporating fields like state, country, and zip code?

You may see the following response:



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Creating a separate table to store customer locations is a great way to normalize your database design. This approach helps reduce redundancy and makes it easier to manage location data, especially if customers can have multiple addresses. Below is a suggested structure for a `CustomerLocations` table, focusing on fields like state, country, and zip code.

Table Structure: CustomerLocations

Field Name	Description	Data Type	Constraints
LocationID	Unique identifier for each location	INT	PRIMARY KEY, AUTO_INCREMENT
CustomerID	Foreign key linking to the Customers table	INT	NOT NULL, FOREIGN KEY REFERENCES Customers(CustomerID)
AddressLine1	Primary address line	VARCHAR(100)	NOT NULL
AddressLine2	Secondary address line (optional)	VARCHAR(100)	NULLABLE
City	City of the location	VARCHAR(50)	NOT NULL
State	State or province	VARCHAR(50)	NOT NULL
PostalCode	Postal or ZIP code	VARCHAR(20)	NOT NULL
Country	Country of the location	VARCHAR(50)	NOT NULL
DateCreated	Timestamp for when the location record was created	DATETIME	DEFAULT CURRENT_TIMESTAMP
DateUpdated	Timestamp for when the location record was last updated	DATETIME	DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP

Example SQL Statement

Here's an example SQL statement to create the `CustomerLocations` table:

```
CREATE TABLE CustomerLocations (  
  LocationID INT PRIMARY KEY AUTO_INCREMENT,  
  CustomerID INT NOT NULL,  
  AddressLine1 VARCHAR(100) NOT NULL,  
  AddressLine2 VARCHAR(100),  
  City VARCHAR(50) NOT NULL,  
  State VARCHAR(50) NOT NULL,  
  PostalCode VARCHAR(20) NOT NULL,  
  Country VARCHAR(50) NOT NULL,  
  DateCreated DATETIME DEFAULT CURRENT_TIMESTAMP,  
  DateUpdated DATETIME DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,  
  FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID)  
);
```

1. **Normalization:** By separating the location data, you can easily manage multiple addresses for a single customer without duplicating customer information.
2. **Data Integrity:** Ensure that the `customerID` in the `customerLocations` table references a valid customer in the `customers` table to maintain referential integrity.
3. **Indexing:** Consider adding indexes on fields that are frequently queried, such as `City`, `State`, and `Country`, to improve performance.
4. **Data Privacy:** As with the customer table, ensure compliance with data protection regulations when handling location data.
5. **Scalability:** Design the table with the potential for future expansion, such as adding more address-related fields if needed.

4. Let us now enquire about how we can design a separate **Purchases** table to store information about customer purchases, such as the date of purchase, amount, and so on, and what would be the best approach to linking this **purchases** table to the main customer table for efficient data organization and retrieval?

Regarding the database structure, how should I design a separate 'Purchases' table to store information about customer purchases, such as the date of purchase, amount, and so on? What would be the best approach to linking this 'purchases' table to the main customer table for efficient data organization and retrieval?

The screenshot shows a ChatGPT chat window. At the top, there's a header 'Chat #3' and a 'Compare Models' button. The chat history on the left shows a previous conversation about a 'Purchases' table. The current conversation starts with a user prompt: 'Regarding the database structure, how should I design a separate 'Purchases' table to store information about customer purchases, such as the date of purchase, amount, and so on? What would be the best approach for linking this 'purchases' table to the main customer table for efficient data organization and retrieval?'. The AI's response explains the benefits of a separate table and provides a table structure with columns: 'Field Name', 'Description', 'Data Type', and 'Constraints'. The interface includes a 'Generate response' button at the bottom.

Designing a separate 'Purchases' table is an excellent way to manage and track customer transactions while maintaining a clear and efficient database structure. Here's how you can structure the 'Purchases' table, along with best practices for linking it to the main 'Customers' table.

Field Name	Description	Data Type	Constraints
PurchaseID	Unique identifier for each purchase	INT	PRIMARY KEY, AUTO. INCREMENT
CustomerID	Foreign key linking to the Customers table	INT	NOT NULL, FOREIGN KEY REFERENCES Customers(CustomerID)
PurchaseDate	Date and time when the purchase was made	DATETIME	NOT NULL
Amount	Total amount of the purchase	DECIMAL(10, 2)	NOT NULL
ItemDescription	Description of the items purchased	VARCHAR(255)	NULLABLE
PaymentMethod	Method used for payment (e.g., Credit Card, PayPal)	VARCHAR(50)	NULLABLE
Status	Status of the purchase (e.g., Completed, Pending)	ENUM('Completed', 'Pending', 'Cancelled')	DEFAULT 'Completed'
DateCreated	Timestamp for when the record was created	DATETIME	DEFAULT CURRENT_TIMESTAMP
DateUpdated	Timestamp for when the record was last updated	DATETIME	DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP

Here's an example SQL statement to create the `Purchases` table:

```
CREATE TABLE Purchases (
    PurchaseID INT PRIMARY KEY AUTO_INCREMENT,
    CustomerID INT NOT NULL,
    PurchaseDate DATETIME NOT NULL,
    Amount DECIMAL(10, 2) NOT NULL,
    ItemDescription VARCHAR(255),
    PaymentMethod VARCHAR(50),
    Status ENUM('Completed', 'Pending', 'Cancelled') DEFAULT 'Completed',
    DateCreated DATETIME DEFAULT CURRENT_TIMESTAMP,
    DateUpdated DATETIME DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
    FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID)
);
```

Linking the Purchases Table to the Customers Table

- 1. **Foreign Key Relationship:** The `CustomerID` field in the `Purchases` table acts as a foreign key referencing the `CustomerID` in the `Customers` table. This relationship ensures that each purchase is associated with a valid customer.
- 2. **Data Integrity:** Enforcing the foreign key constraint helps maintain data integrity, ensuring that you cannot have a purchase linked to a non-existent customer.
- 3. **Efficient Data Retrieval:** To retrieve customer purchases efficiently, you can use `SQL JOIN` statements. For example, to get all purchases made by a specific customer, you can run a query like this:

```
SELECT p.PurchaseID, p.PurchaseDate, p.Amount, p.ItemDescription, p.PaymentMethod, p.Status
FROM Purchases p
JOIN Customers c ON p.CustomerID = c.CustomerID
WHERE c.CustomerID = ?; -- Replace ? with the specific CustomerID
```

Additional Considerations

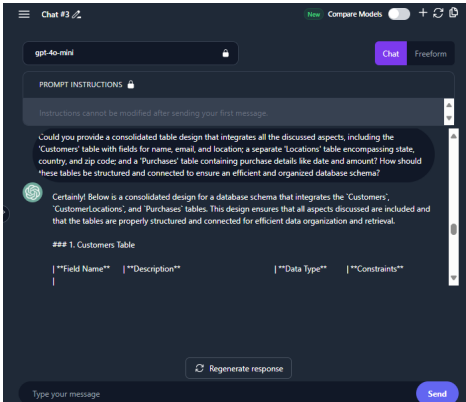
- 1. **Indexing:** Consider adding indexes on the `PurchaseDate` and `CustomerID` fields to improve query performance, especially if you expect to run many queries filtering by these fields.
- 2. **Data Privacy:** Ensure compliance with data protection regulations when handling purchase data, especially if it includes sensitive information like payment methods.
- 3. **Scalability:** Design the table to accommodate future needs, such as adding fields for discounts, taxes, or more detailed item descriptions.
- 4. **Audit Trail:** If necessary, consider implementing an audit trail to track changes in purchase records over time.

By following this structure, you can effectively manage customer purchases while maintaining a well-organized and efficient database design.

5. We now need a consolidated table design that integrates all the discussed aspects, including the 'Customers' table with fields for name, email, and location; and a 'Purchases' table containing purchase details like date and amount. We will now ask these details to ChatGPT and enquire on how these tables should be structured or connected to ensure efficient and organized database schema.

Could you provide a consolidated table design that integrates all the discussed aspects, including the 'Customers' table with fields for name, email, and location; a separate 'Locations' table encompassing state, country, and zip code; and a 'Purchases' table containing purchase details like date and amount? How should these tables be structured and connected to ensure an efficient and organized database schema?

You may see this response:



▼ Click here for full output of the result we got.The output produced at your end may be different.

Certainly! Below is a consolidated design for a database schema that integrates the 'Customers', 'CustomerLocations', and 'Purchases' tables. This design ensures that all aspects discussed are included and that the tables are properly structured and connected for efficient data organization and retrieval.

1. Customers Table

Field Name	Description	Data Type	Constraints
CustomerID	Unique identifier for each customer	INT	PRIMARY KEY, AUTO_INCREMENT
FirstName	Customer's first name	VARCHAR(50)	NOT NULL
LastName	Customer's last name	VARCHAR(50)	NOT NULL
Email	Customer's email address	VARCHAR(100)	NOT NULL, UNIQUE
PhoneNumber	Customer's phone number	VARCHAR(15)	NULLABLE
DateCreated	Timestamp for when the record was created	DATETIME	DEFAULT CURRENT_TIMESTAMP
DateUpdated	Timestamp for when the record was last updated	DATETIME	DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP
Status	Indicates if the customer is active, inactive, or archived	ENUM('Active', 'Inactive', 'Archived')	DEFAULT 'Active'

Example SQL Statement for Customers Table

```
CREATE TABLE Customers (
  CustomerID INT PRIMARY KEY AUTO_INCREMENT,
  FirstName VARCHAR(50) NOT NULL,
  LastName VARCHAR(50) NOT NULL,
  Email VARCHAR(100) NOT NULL UNIQUE,
  PhoneNumber VARCHAR(15),
```

```
    DateCreated DATETIME DEFAULT CURRENT_TIMESTAMP,
    DateUpdated DATETIME DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
    Status ENUM('Active', 'Inactive', 'Archived') DEFAULT 'Active'
);
```

2. CustomerLocations Table

Field Name	Description	Data Type	Constraints
LocationID	Unique identifier for each location	INT	PRIMARY KEY, AUTO_INCREMENT
CustomerID	Foreign key linking to the Customers table	INT	NOT NULL, FOREIGN KEY REFERENCES Customers(CustomerID)
AddressLine1	Primary address line	VARCHAR(100)	NOT NULL
AddressLine2	Secondary address line (optional)	VARCHAR(100)	NULLABLE
City	City of the location	VARCHAR(50)	NOT NULL
State	State or province	VARCHAR(50)	NOT NULL
PostalCode	Postal or ZIP code	VARCHAR(20)	NOT NULL
Country	Country of the location	VARCHAR(50)	NOT NULL
DateCreated	Timestamp for when the location record was created	DATETIME	DEFAULT CURRENT_TIMESTAMP
DateUpdated	Timestamp for when the location record was last updated	DATETIME	DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP

Example SQL Statement for CustomerLocations Table

```
CREATE TABLE CustomerLocations (
    LocationID INT PRIMARY KEY AUTO_INCREMENT,
    CustomerID INT NOT NULL,
    AddressLine1 VARCHAR(100) NOT NULL,
    AddressLine2 VARCHAR(100),
    City VARCHAR(50) NOT NULL,
    State VARCHAR(50) NOT NULL,
    PostalCode VARCHAR(20) NOT NULL,
    Country VARCHAR(50) NOT NULL,
    DateCreated DATETIME DEFAULT CURRENT_TIMESTAMP,
    DateUpdated DATETIME DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
    FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID)
);
```

3. Purchases Table

Field Name	Description	Data Type	Constraints
PurchaseID	Unique identifier for each purchase	INT	PRIMARY KEY, AUTO_INCREMENT
CustomerID	Foreign key linking to the Customers table	INT	NOT NULL, FOREIGN KEY REFERENCES Customers(CustomerID)
PurchaseDate	Date and time when the purchase was made	DATETIME	NOT NULL
Amount	Total amount of the purchase	DECIMAL(10, 2)	NOT NULL
ItemDescription	Description of the items purchased	VARCHAR(255)	NULLABLE
PaymentMethod	Method used for payment (e.g., Credit Card, PayPal)	VARCHAR(50)	NULLABLE
Status	Status of the purchase (e.g., Completed, Pending)	ENUM('Completed', 'Pending', 'Cancelled')	DEFAULT 'Completed'
DateCreated	Timestamp for when the record was created	DATETIME	DEFAULT CURRENT_TIMESTAMP
DateUpdated	Timestamp for when the record was last updated	DATETIME	DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP

Example SQL Statement for Purchases Table

```
CREATE TABLE Purchases (
    PurchaseID INT PRIMARY KEY AUTO_INCREMENT,
    CustomerID INT NOT NULL,
    PurchaseDate DATETIME NOT NULL,
    Amount DECIMAL(10, 2) NOT NULL,
    ItemDescription VARCHAR(255),
    PaymentMethod VARCHAR(50),
    Status ENUM('Completed', 'Pending', 'Cancelled') DEFAULT 'Completed',
    DateCreated DATETIME DEFAULT CURRENT_TIMESTAMP,
    DateUpdated DATETIME DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
    FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID)
);
```

Summary of Relationships

- **Customers Table:** This is the main table holding customer information.
- **CustomerLocations Table:** Each entry in this table is linked to a customer via the `CustomerID` foreign key, allowing multiple addresses for a single customer.
- **Purchases Table:** Each purchase is linked to a customer through the `CustomerID` foreign key, enabling tracking of all purchases made by a specific customer.

Additional Considerations

1. **Normalization:** This design promotes normalization by separating customer details, locations, and purchases into distinct tables.
2. **Data Integrity:** Foreign key constraints ensure that all references are valid and maintain data integrity across tables.

3. **Efficient Queries:** You can efficiently retrieve customer-related data using JOIN operations across these tables.

This consolidated design provides a robust framework for managing customer data, locations, and purchase transactions, ensuring efficient data organization and retrieval in your database.

Summary

Through this hands-on experience, you've explored the dynamic synergy between your creative insights and the innovative assistance provided by ChatGPT in crafting a robust customer database.

In your journey, you posed insightful questions, navigated the intricacies of structuring the Customers, Locations, and Purchases tables, and collaborated with ChatGPT to refine your design. The result is a thoughtfully constructed database that lays the groundwork for efficient information organization and management.

This lab not only honed your skills in database design but also showcased the potential of leveraging AI tools like ChatGPT in real-world scenarios. As you reflect on your experience, consider the valuable lessons learned, challenges overcome, and the collaborative spirit fostered in the pursuit of an optimal database design.

Congratulations!

You have completed the lab on generating database design with ChatGPT.

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