

CS425-Group Project

Relational Model

In this case, I use "userID" to replace "staffID" and "customerID". That way is easier to get foreign key and something else.

Users:

<u>userID</u>	First_name	Last_name	username	password	Street_number	Street_name	Apt_number	City	State	Zip
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- userID: auto_generated integer ID
- first_name: 128 character string 'a' through 'z' each
- last_name: 128 character string 'a' through 'z' each
- username: 128 character string 'a' through 'z' each
- password: (20)varchar
- Street_number: integer
- Street_name: 128 character string
- Apt_number: integer
- City: 128 character string
- State: 30 character string
- Zip: integer

Primary key: userID

Customer:

<u>userID</u>	balance
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- userID:
- balance: numeric(10,2)

Primary key: userID

Staff

<u>userID</u>	salary	Job_title
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- userID: auto_generated integer ID
- salary: numeric(10,2)
- job_title: 30 character string

Primary key: userID

Orders:

<u>orderID</u>	userID	orderTotal
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- orderID: auto_generated integer ID
- userID: auto_generated integer ID
- orderTotal: numeric(4,2)

Primary key: orderID

Deliver_address

<u>userID</u>	name	Street_number	Street_name	Apt_number	City	State	Zip
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- userID: auto_generated integer ID

- name: 128 character string 'a' through 'z' each
- Street number: integer
- Street name: 128 character string
- Apt number: integer
- City: 128 character string
- State: 30 character string
- Zip: integer

Primary key: userID

Card

<u>Card number</u>	userID	First_name	Last_name	expiration	Security_code	Street_number	Street_name	Apt_number	city	State	zip
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- card number: auto_generated integer ID
- userID: auto_generated integer ID
- first name: 128 character string 'a' through 'z' each
- last name: 128 character string 'a' through 'z' each
- expiration: integer
- Street number: integer
- Street name: 128 character string
- Apt number: integer
- City: 128 character string
- State: 30 character string
- Zip: integer
- salary: numeric(10,2)
- job title: 30 character string

Primary key: card_number

Product

<u>Item_name</u>	Category	size
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- item name: 128 character string
- category: auto_generated integer
- size: auto_generated integer

Primary key: item_name

Price

<u>Item_name</u>	price
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- item name: 128 character string
- price: numeric(4,2)

Primary key: item_name

Supplier

<u>supplierID</u>	Item_name	First_name	Last_name	Street_number	Street_name	Apt_number	City	State	Zip	price
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- supplierID: auto_generated integer ID
- item_name: 128 character string
- first_name: 128 character string ‘
- last_name: 128 character string ‘
- Street_number: integer
- Street_name: 128 character string
- Apt_number: integer
- City: 128 character string
- State: 30 character string
- Zip: integer
- Price: numeric(4,2)

Primary key: supplierID

Warehouse

<u>warehouseID</u>	Item_name	Street_number	Street_name	Apt_number	City	State	Zip	capacity
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- warehouseID: auto_generated integer ID
- item_name: 128 character string
- Street_number: integer
- Street_name: 128 character string
- Apt_number: integer
- City: 128 character string
- State: 30 character string
- Zip: integer
- Capacity: integer

Primary key: warehouseID

Type

<u>Category</u>	Item_name	information
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- Category: 128 character string
- item_name: 128 character string
- information: 200 character string

Primary key: category

Stock

Item_name	Street_number	Street_name	Apt_number	City	State	Zip	amount
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- item_name: 128 character string
- Street_number: integer
- Street_name: 128 character string
- Apt_number: integer
- City: 128 character string
- State: 30 character string

- Zip: integer
- amount: integer

Primary key: item_name