CS425-Group Project

Relational Model

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

**Users:**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| userID | First\_name | Last\_name | username | password | Street\_number | Street\_name | Apt\_number | City | State | Zip |

* 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 charcter string
* State: 30 character string
* Zip: integer

Primary key: userID

Candidate key:

Foreign key: userID,

**Customer:**

|  |  |
| --- | --- |
| userID | balance |

* userID:
* balance: numeric(10,2)

Primary key: userID

Candidate key:

Foreign key: userID

**Staff**

|  |  |  |
| --- | --- | --- |
| userID | salary | Job\_title |

* userID :auto\_generated integer ID
* salary: numeric(10,2)
* job\_title:30 charater string

Primary key: userID

Candidate key:

Foreign key: userID,

**Orders:**

|  |  |  |
| --- | --- | --- |
| orderID | userID | orderTotal |

* oderID :auto\_generated integer ID
* userID: auto\_generated integer ID
* orderTotal: numberic(4,2)

Primary key:

Candidate key:

Foreign key:

**Deliver\_address**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| userID | name | Street\_number | Street\_name | Apt\_number | City | State | Zip |

* 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 charcter string
* State: 30 character string
* Zip: integer

Primary key:

Candidate key:

Foreign key:

**Card**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Card\_number | userID | First\_name | Last\_name | expiration | Security\_code | Street\_number | Street\_jname | Apt\_number | city | State | zip |

* 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:
* Street\_number: integer
* Street\_name: 128 character string
* Apt\_number: integer
* City: 128 charcter string
* State: 30 character string
* Zip: integer
* salary: numeric(10,2)
* job\_title:30 charater string

Primary key:

Candidate key:

Foreign key:

**Product**

|  |  |  |
| --- | --- | --- |
| Item\_name | Category | size |

* item\_name :128 charcter string
* catagory: auto\_generated integer
* size: auto\_generated integer

Primary key:

Candidate key:

Foreign key:

**Price**

|  |  |
| --- | --- |
| Item\_name | price |

* item\_name :128 charcter string
* price: numeric(4,2)

Primary key:

Candidate key:

Foreign key: item\_name

**Supplier**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| supplierID | Item\_name | First\_name | Last\_name | Street\_number | Street\_name | Apt\_number | City | State | Zip | price |

* 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 charcter string
* State: 30 character string
* Zip: integer
* Price:numberic(4,2)

Primary key:

Candidate key:

Foreign key:

**Warehouse**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| warehouseID | Item\_name | Street\_number | Street\_name | Apt\_number | City | State | Zip | capacity |

* warehouseID :auto\_generated integer ID
* item\_name: 128 character string
* Street\_number: integer
* Street\_name: 128 character string
* Apt\_number: integer
* City: 128 charcter string
* State: 30 character string
* Zip: integer
* Capacity:integer

Primary key:

Candidate key:

Foreign key:

**Type**

|  |  |  |
| --- | --- | --- |
| Category | Item\_name | information |

* Category: 128 character string
* item\_name :128 character string
* information: 200 character string

Primary key:

Candidate key:

Foreign key: item\_name

**Stock**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Item\_name | Street\_number | Street\_name | Apt\_number | City | State | Zip | amount |

* item\_name: 128 character string
* Street\_number: integer
* Street\_name: 128 character string
* Apt\_number: integer
* City: 128 charcter string
* State: 30 character string
* Zip: integer
* amount: integer

Primary key:

Candidate key:

Foreign key: