Shopping Cart

Group No : 5

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Subject Code : CSD 2204

Subject Name : SQL Database

Topics we learnt:

* Code Rules for creating Databse.
* DDL ,DML Statements.
* Triggers , Views, Sub queries with JOINS.
* ER-Diagrams ,Normalization.
* Store Procedures

Difficulties I faced while creating Database :

* Deciding Boundaries of Databases
* Creating

Technology Used :

* E-Draw Max (ER Diagram)
* Xammp Server
* Phpmyadmin
* SQL Command Line

Tables

**Table Name :** tbl\_address

**Primary Key :** address\_id

**Foreign key :** State\_id

**Description :** This table contain information about customer addresses.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| FIELD NAME | TYPE | CONSTRAIN | KEY | DESCRIPTION |
| Address\_id | INT(10) | NOT NULL | PRIMARY KEY  (Auto Increment) |  |
| Address | VARCHAR(255) | NOT NULL |  |  |
| City | VARCHAR(50) | NOT NULL |  |  |
| State | INT(10) | NOT NULL | FOREIGN KEY |  |
| Phone\_number1 | BIGINT | NOT NULL |  |  |
| Phone\_number1 | BIGINT |  |  |  |

**Table Name :** tbl\_brand

**Primary Key :** brand\_id

**Foreign key :** user\_id

**Description :** This table contain information of Brands.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| FIELD NAME | TYPE | CONSTRAIN | KEY | DESCRIPTION |
| Brand\_ID | INT(10) | NOT NULL | PRIMARY KEY  (Auto Increment) |  |
| Brand\_NAME | VARCHAR(100) | NOT NULL |  |  |
| Brand\_logo | VARCHAR(255) |  |  |  |
| User\_id | INT(10) | NOT NULL | FOREIGN KEY |  |
| Date\_added | DATE | NOT NULL |  |  |
|  |  |  |  |  |

**Table Name :** tbl\_category

**Primary Key :** category\_id

**Foreign key :** user\_id

**Description :** This table contain information regarding Category of products.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| FIELD NAME | TYPE | CONSTRAIN | KEY | DESCRIPTION |
| Category\_ID | INT(10) | NOT NULL | PRIMARY KEY  (Auto Increment) |  |
| Category\_name | VARCHAR(255) | NOT NULL |  |  |
| Description | Text | NOT NULL |  |  |
| User\_id | Int(10) | NOT NULL | FOREIGN KEY |  |
| Date\_addes | Date | NOT NULL |  |  |

**Table Name :** tbl\_customer

**Primary Key :** customer\_id

**Foreign key :** address\_id

**Description :** This table contain information about Customers.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| FIELD NAME | TYPE | CONSTRAIN | KEY | DESCRIPTION |
| Customer\_ID | INT(10) | NOT NULL | PRIMARY KEY  (Auto Increment) |  |
| First\_name | VARCHAR(50) | NOT NULL |  |  |
| Last\_name | VARCHAR(50) | NOT NULL |  |  |
| Email\_address | VARCHAR(255) | NOT NULL |  |  |
| Password | VARCHAR(255) | NOT NULL |  |  |
| Address\_id | INT(10) | NOT NULL | FOREIGN KEY |  |
| Date\_added | Date | NOT NULL |  |  |
| Newsletter | Boolean | NOT NULL | DEFALT (YES) |  |

**Table Name :** tbl\_order

**Primary Key :** Order\_id

**Foreign key :**  Customer\_id , Payment\_address\_id , Shipment\_address\_id , Order\_status ,

**Description :** This table contain information about All Orders.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| FIELD NAME | TYPE | CONSTRAIN | KEY | DESCRIPTION |
| Order\_id | INT(11) | NOT NULL | PRIMARY KEY  (Auto Increment) |  |
| Customer\_id | INT(11) | NOT NULL |  |  |
| Payment\_firstname | INT(32) | NOT NULL |  |  |
| Payment\_lastname | INT(32) | NOT NULL |  |  |
| Payment\_address | Int(10) | NOT NULL | FOREIGN KEY |  |
| Payment\_method | Varchar(32) | NOT NULL |  |  |
| Shipping\_firstname | VARCHAR(32) | NOT NULL |  |  |
| Shipping\_lastname | VARCHAR(32) | NOT NNULL |  |  |
| Shipping\_address | Int(10) | NOT NULL | FOREIGN KEY |  |
| Total | DECIMAL(15,4) | NOT NULL |  |  |
| Order\_status | INT(10) | NOT NULL | FOREIGN KEY |  |
| Date\_added | Date | NOT NULL |  |  |
| Date\_Modified | Date | NOT NULL |  |  |

**Table Name :** tbl\_state

**Primary Key :** state\_id

**Foreign key :**

**Description :** This table contain information about all states of Country

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| FIELD NAME | TYPE | CONSTRAIN | KEY | DESCRIPTION |
| State\_id | INT(10) | NOT NULL | PRIMARY KEY  (Auto Increment) |  |
| State\_name | VARCHAR(60) | NOT NULL |  |  |

**Table Name :** tbl\_status

**Primary Key :** status\_id

**Foreign key :**

**Description :** This table defines status of order.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| FIELD NAME | TYPE | CONSTRAIN | KEY | DESCRIPTION |
| Status\_id | INT(10) | NOT NULL | PRIMARY KEY  (Auto Increment) |  |
| status | VARCHAR(60) | NOT NULL |  |  |

**Table Name :** tbl\_user

**Primary Key :** user\_id

**Foreign key :**

**Description :** This table contain information about all authorized Users

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| FIELD NAME | TYPE | CONSTRAIN | KEY | DESCRIPTION |
| User\_id | INT(10) | NOT NULL | PRIMARY KEY  (Auto Increment) |  |
| User\_email\_id | Tinytext | NOT NULL |  |  |
| User\_password | Text | NOT NULL |  |  |
| Date\_added | Date | NOT NULL |  |  |

**Table Name :** tbl\_product

**Primary Key :** Product\_id

**Foreign key :**  Brand\_id , Category\_id , User\_id

**Description :** This table contain information about Products.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| FIELD NAME | TYPE | CONSTRAIN | KEY | DESCRIPTION |
| Product\_id | INT(10) | NOT NULL | PRIMARY KEY  (AUTO INCREMENT) |  |
| Product\_name | VARCHAR(100) | NOT NULL |  |  |
| Product\_description | TEXT | NOT NULL |  |  |
| Product\_model | VARCHAR(150) | NOT NULL |  |  |
| Price | DOUBLE | NOT NULL |  |  |
| Points | INT(5) | NOT NULL |  |  |
| Weight | Float | NOT NULL |  |  |
| Height | FLOAT | NOT NULL |  |  |
| Width | FLOAT | NOT NULL |  |  |
| Rating | INT(1) | NOT NULL |  |  |
| Date\_added | Date | NOT NULL |  |  |
| Brand\_id | INT(10) | NOT NULL | FOREIGN KEY |  |
| Categoty\_id | INT(10) | NOT NULL | FOREIGN KEY |  |
| User\_id | INT(10) | NOT NULL | FOREIGN KEY |  |

**Table Name :** tbl\_cart

**Primary Key :**  Cart\_id

**Foreign key :** Customer\_id , Product\_id

**Description :** This table contain information about Customer Cart.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| FIELD NAME | TYPE | CONSTRAIN | KEY | DESCRIPTION |
| Cart\_id | INT(10) | NOT NULL | PRIMARY KEY  (Auto Increment) |  |
| Customer\_id | INT(11) | NOT NULL | FOREIGN KEY |  |
| Product\_id | INT(11) | NOT NULL | FOREIGN KEY |  |
| Quantity | INT(11) | NOT NULL |  |  |
| Date\_added | Date | NOT NULL |  |  |

Query

1. Create table containing address of customers.

CREATE TABLE tbl\_address

(

address\_id int(10) NOT NULL AUTO\_INCREMENT,

address varchar(255) NOT NULL,

city varchar(50) NOT NULL,

state int(10) NOT NULL,

phone\_number1 BIGINT NOT NULL,

phone\_number2 BIGINT ,

PRIMARY KEY ( address\_id )

)

2. Create table containing brand information.

CREATE TABLE tbl\_brand

(

brand\_id int(10) NOT NULL AUTO\_INCREMENT,

brand\_name varchar(100) NOT NULL,

user\_id int(10) NOT NULL,

date\_added date NOT NULL,

PRIMARY KEY ( brand\_id ),

UNIQUE KEY unique\_brand\_name ( brand\_name )

)

3. Create table containing information of customer’s cart.

CREATE TABLE tbl\_cart

(

cart\_id int(11) NOT NULL AUTO\_INCREMENT,

customer\_id int(11) DEFAULT NULL,

product\_id int(11) DEFAULT NULL,

quantity int(5) NOT NULL,

coupon\_id int(11) DEFAULT NULL,

date\_added datetime NOT NULL ,

PRIMARY KEY ( cart\_id )

)

4. Create table containing product’s category.

CREATE TABLE tbl\_category

(

catergory\_id int(10) NOT NULL AUTO\_INCREMENT,

category\_name varchar(255) NOT NULL,

description text NOT NULL,

user\_id int(10) NOT NULL,

date\_added date NOT NULL,

PRIMARY KEY ( catergory\_id )

)

5. Create table that have basic information of registered customers.

CREATE TABLE tbl\_customer

(

customer\_id int(10) NOT NULL AUTO\_INCREMENT,

first\_name varchar(50) NOT NULL,

last\_name varchar(50) NOT NULL,

email\_address varchar(100) NOT NULL,

password varchar(255) NOT NULL,

address\_id int(10) NOT NULL,

date\_added date NOT NULL,

nwesletter tinyint(1) NOT NULL ,

PRIMARY KEY ( customer\_id ),

UNIQUE KEY email\_address ( email\_address ),

UNIQUE KEY password ( password ),

UNIQUE KEY email\_address\_2 ( email\_address ),

FOREIGN KEY ( customer\_id ) REFERENCES tbl\_address ( address\_id ) ON DELETE CASCADE ON UPDATE NO ACTION

)

s6. Create table for all the orders placed by customer.

CREATE TABLE tbl\_order

(

order\_id int(11) NOT NULL AUTO\_INCREMENT,

customer\_id int(11) NOT NULL ,

payment\_firstname varchar(32) NOT NULL,

payment\_lastname varchar(32) NOT NULL,

payment\_address int(10) NOT NULL,

payment\_method varchar(32) NOT NULL,

shipping\_firstname varchar(32) NOT NULL,

shipping\_lastname varchar(32) NOT NULL,

shipping\_address int(10) NOT NULL,

total decimal(15,4) NOT NULL,

order\_status int(11) NOT NULL

date\_added date NOT NULL,

date\_modified date NOT NULL,

PRIMARY KEY ( order\_id ),

FOREIGN KEY (customer\_id) REFERENCES tbl\_customer(customer\_id),

FOREIGN KEY (payment\_address) REFERENCES tbl\_address(address\_id),

FOREIGN KEY (shipping\_address) REFERENCES tbl\_address(address\_id),

FOREIGN KEY (order\_status) REFERENCES tbl\_status(status\_id),

)

7. tbl\_product

CREATE TABLE tbl\_product

(

product\_id int(10) NOT NULL AUTO\_INCREMENT,

product\_name varchar(100) NOT NULL,

product\_description text NOT NULL,

product\_model varchar(150) NOT NULL,

price double NOT NULL,

points int(5) NOT NULL,

weight float NOT NULL,

height float NOT NULL,

widht float NOT NULL,

rating int(1) NOT NULL,

date\_added date NOT NULL,

brand\_id int(10) NOT NULL ,

category\_id int(10) NOT NULL ,

user\_id int(10) NOT NULL ,

PRIMARY KEY ( product\_id ),

FOREIGN KEY (brand\_id) REFERENCES tbl\_brand(brand\_id),

FOREIGN KEY (category\_id) REFERENCES tbl\_category(category\_id),

FOREIGN KEY (user\_id) REFERENCES tbl\_user(user\_id)

)

8. Create table having all state’s information of country Canada.

CREATE TABLE tbl\_state

(

state\_id int(3) NOT NULL AUTO\_INCREMENT,

state\_name varchar(60) NOT NULL,

PRIMARY KEY ( state\_id )

)

9. Create table that have predefine product delivery status.

CREATE TABLE tbl\_status

(

status\_id int(11) NOT NULL AUTO\_INCREMENT,

status varchar(32) NOT NULL,

PRIMARY KEY ( status\_id )

)

10. Create table that have authorized user data.

CREATE TABLE tbl\_user

(

user\_id int(10) NOT NULL AUTO\_INCREMENT,

user\_email\_id tinytext NOT NULL,

user\_password text NOT NULL,

date\_added date NOT NULL,

PRIMARY KEY ( user\_id )

)