

# Online Stationery Shopping Management System

Under Professor:

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# REVIEW 2:-

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# ABSTRACT

This Online Shopping System for stationery item shop web application is intended to provide

complete solutions for vendors as well as customers through a single get way using the internet.

It will enable vendors to setup online shops, customer to browse through the shop and purchase them online without having to visit the shop physically.

The administration module will enable a system administrator to approve and reject requests for new shops and maintain various lists of shop category.



# MOTIVE

The present situation that lies ahead us is full of challenges as the whole world is suffering from very known and contagious disease Covid-19. Most of Education Institution and stores have halted their functioning due to the pandemic. Its good for preventive measures but does that mean we have to stop all our activity and sit down idle, well no Humans are good at finding solution and Considering the Education as a very important part of the base of a Civilized and a developed society its functioning is very important and so Online stationery shopping plays a very important role in making sure that things continue without we going outside. The very motive of ours to supply all the stationery required by the students and other individual without the need to step outside. In today's world everything is now available online so now we have brought stationery shopping online.

# OBJECTIVES

- Design a website such that end users feel easy to shop online
- Provide an interface such that 1st time users can also use it easily, usability principles applied to GUI.
- Gain trust of users on online shopping
- Provide good quality products to people
- Digitalize the world of shopping , and provide employment opportunities.

# Technical Specification

**Online Stationery Store Database will do following processes**

- A. Any vendor can register after the approval of the admin .
- B. There are three roles available: Customer, Vendor and Admin.
- C. Vendors can display their product for sale.
- D. Customer can view products, purchase them and have it delivered to their convenient location.
- E. An admin has some extra privilege including all privilege of vendor and customer.  
Admin can add/approve vendors, edit information and add/remove any info..
- F. Vendor can give feedback also..
- G. Software Resource Requirements
  - Mysql
  - PHP
  - CSS
  - HTML
  - LINUX OS
  - Apache(Local Client Server)

# NORMALISATION

# 1)CUSTOMER

COLUMN	DATATYPE	CONSTRAINTS
CUSTOMER_ID	Int	PRIMARY KEY,NOT NULL
PHONE_NO.	Int	NOT NULL
EMAIL	varchar(25)	NOT NULL
F_NAME	varchar(15)	NOT NULL
L_NAME	varchar(15)	NOT NULL

## CONSTRAINTS:

CUSTOMER\_ID int primary key

# FUNCTIONAL DEPENDENCIES

## ADDRESS

COLUMN	DATATYPE	CONSTRAINTS
FLAT_NO	varchar(5)	NOT NULL
STREET	varchar(25)	NOT NULL
PINCODE	varchar(8)	NOT NULL
LANDMARK	varchar(40)	NOT NULL
CITY	varchar(20)	NOT NULL
STATE	varchar(20)	NOT NULL
CUSTOMER_ID	Int	PRIMARY KEY

### CONSTRAINTS:

constraint c11 foreign key(CUSTOMER\_ID) references  
Customer(CUSTOMER\_ID)

# TABLE

Cus_id	Cart_id	email	Phone_no	F_name	L_name	Flat_no	Street_no	city	state	pincode
101	12	Riya.raj2019@gmail.com	8308944090, 8379748743	riya	raj	A-1605	Rajeev Gandhi nagar	Kota	Rajasthan	324005
203	15	sarthak@gmail.com	9489598585	sarthak	murarka	302	MG Road	Kota	Rajasthan	324005
407	13	Prateek@ymail.com	8003356489	prateek	sancheti	1804	Vittal Malya Road	Bengaluru	Karnataka	124506
306	10	roshan@mit.ac.in	8384958558, 3949834934	roshan	mathew	G-302	Bogmalo	Panaji	Goa	293809
608	5	kumars@iocl.in	3748748757	ishaan	kumar	S-4893	Indira road	Noida	Uttar Pradesh	309349
236	19	kohlirohan@gmail.com	8459874758	rohan	kohli	B-120	Defence colony	Delhi	Delhi	479873

# 1NF: FIRST NORMAL FORM

The table is now in 1NF as it is atomic and not multivalued with composite primary key.

Cus_id	Cart_id	email	F_name	L_name	Flat_no	Street_no	city	state	pincode
101	12	Riya.raj2019@gmail.com	riya	raj	A-1605	Rajeev Gandhi nagar	Kota	Rajasthan	324005
203	15	sarthak@gmail.com	sarthak	murarka	302	MG Road	Kota	Rajasthan	324005
407	13	Prateek@ymail.com	prateek	sancheti	1804	Vittal Malya Road	Bengaluru	Karnataka	124506
306	10	roshan@mit.ac.in	roshan	mathew	G-302	Bogmalo	Panaji	Goa	293809
608	5	kumars@iocl.in	ishaan	kumar	S-4893	Indira road	Noida	Uttar Pradesh	309349
236	19	kohlirohan@gmail.com	rohan	kohli	B-120	Defence colony	Delhi	Delhi	479873

**PRIMARY KEY:** Cus\_id

**FOREIGN KEY:** Cus\_id  
**PRIMARY KEY:** Cus\_idPhone

# 2NF: SECOND NORMAL FORM

- Table is in 1NF (First normal form)
- No non-prime attribute is dependent on the proper subset of any candidate key of table.

Cus_id	Cart_id	email	F_name	L_name	Flat_no	Street_no	city	state	pincode
101	12	Riya.raj2019@gmail.com	riya	raj	A-1605	Rajeev Gandhi nagar	Kota	Rajasthan	324005
203	15	sarthak@gmail.com	sarthak	murarka	302	MG Road	Kota	Rajasthan	324005
407	13	Prateek@ymail.com	prateek	sancheti	1804	Vittal Malya Road	Bengaluru	Karnataka	124506
306	10	roshan@mit.ac.in	roshan	mathew	G-302	Bogmalo	Panaji	Goa	293809
608	5	kumars@iocl.in	ishaan	kumar	S-4893	Indira road	Noida	Uttar Pradesh	309349
236	19	kohlirohan@gmail.com	rohan	kohli	B-120	Defence colony	Delhi	Delhi	479873

Cus_id	Phone_no
101	8308944090
101	8379748743
203	9489598585
407	8003356489
306	8384958558
306	3949834934
608	3748748757
236	8459874758

# 3NF: THIRD NORMAL FORM

- Table must be in 2NF
- Transitive functional dependency of non-prime attribute on any super key should be removed.

Cus_id	Cart_id	email	F_name	L_name	Flat_no	Street_no	pincode
101	12	Riya.raj2019@gmail.com	riya	raj	A-1605	Rajeev Gandhi nagar	324005
203	15	sarthak@gmail.com	sarthak	murarka	302	MG Road	324005
407	13	Prateek@ymail.com	prateek	sancheti	1804	Vittal Malya Road	124506
306	10	roshan@mit.ac.in	roshan	mathew	G-302	Bogmalo	293809
608	5	kumars@ioc.l.in	ishaan	kumar	S-4893	Indira road	309349
236	19	kohlirohan@gmail.com	rohan	kohli	B-120	Defence colony	479873

pincode	city	state
324005	Kota	Rajasthan
324005	Kota	Rajasthan
124506	Bengaluru	Karnataka
293809	Panaji	Goa
309349	Noida	Uttar Pradesh
479873	Delhi	Delhi

Cus_id	Phone_no
101	8308944090
101	8379748743
203	9489598585
407	8003356489
306	8384958558
306	3949834934
608	3748748757
236	8459874758

# BCNF:BOYCE CODD NORMAL FORM

A table complies with BCNF if it is in 3NF and for every functional dependency  $X \rightarrow Y$ , X should be the super key of the table.

Cus_id	Cart_id	email	F_name	L_name	Flat_no	Street_no	pincode
101	12	Riya.raj2019@gmail.com	riya	raj	A-1605	Rajeev Gandhi nagar	324005
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407	13	Prateek@ymail.com	prateek	sancheti	1804	Vittal Malya Road	124506
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pincode	city	state
324005	Kota	Rajasthan
324005	Kota	Rajasthan
124506	Bengaluru	Karnataka
293809	Panaji	Goa
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Cus_id	Phone_no
101	8308944090
101	8379748743
203	9489598585
407	8003356489
306	8384958558
306	3949834934
608	3748748757
236	8459874758

## 2)CATEGORY

COLUMN	DATATYPE	CONSTRAINTS
CATEGORY_ID	Int	PRIMARY KEY
CATEGORY_NAME	varchar(20)	NOT NULL

### CONSTRAINTS:

Category\_id int primary key,

### FUNCTIONAL DEPENDENCIES

HAS,PRODUCT

### 3) BRAND

COLUMN	DATATYPE	CONSTRAINTS
BRAND_ID	Int	PRIMARY KEY, NOT NULL
BRAND NAME	varchar(50)	FOREIGN KEY, NOT NULL

#### CONSTRAINTS:

BRAND\_ID int primary key,

#### FUNCTIONAL DEPENDENCIES

HAS, INCLUDES

# HAS

COLUMN	DATATYPE	CONSTRAINTS
CATEGORY_ID	int	FOREIGN KEY, NOT NULL
BRAND_ID	Int	FOREIGN KEY, NOT NULL

## CONSTRAINTS:

constraint c12 foreign key(BRAND\_ID) references Brand(BRAND\_ID),

constraint c13 foreign key(CATEGORY\_ID) references Category(CATEGORY\_ID)

# INCLUDES

COLUMN	DATATYPE	CONSTRAINTS
PRODUCT_ID	Int	FOREIGN KEY, NOT NULL
BRAND_ID	int	FOREIGN KEY, NOT NULL

## CONSTRAINTS:

constraint c20 foreign key(PRODUCT\_ID) references  
PRODUCT(PRODUCT\_ID), constraint c21 foreign  
key(BRAND\_ID) references Brand(BRAND\_ID)

# 4) PRODUCT

COLUMN	COLUMN	CONSTRAINTS
PRODUCT_ID	int	PRIMARY KEY, NOT NULL
PAYMENT_NAME	varchar(20)	NOT NULL
PRICE	int	NOT NULL
CUSTOMER_ID	int	NOT NULL
BRAND	varchar(1000)	NOT NULL

## CONSTRAINTS:

PRODUCT\_ID int primary key,

constraint c15 foreign key(CATEGORY\_ID) references  
CATEGORY(CATEGORY\_ID)

## FUNCTIONAL DEPENDENCIES

INCLUDES,ADD ITEMS

# TABLE

Pro_id	Pro_name	B_name	B_id	Price_one	Quantity
2001	pencil	Apsara	302	5	100
2002	eraser	Natraj	312	10	250
2003	pens	Camlin	345	20	300
2004	scales	Stedler	367	15	100
2005	Compass	FaberCastle	389	30	200
2006	Marker	Uniball	392	50	500

# 1NF: FIRST NORMAL FORM

The table is now in 1NF as it is atomic and not multivalued with composite primary key.

Pro_id	Pro_name	B_name	B_id	Price_one	Quantity
2001	pencil	Apsara	302	5	100
2002	eraser	Natraj	312	10	250
2003	pens	Camlin	345	20	300
2004	scales	Stedler	367	15	100
2005	Compass	FaberCastle	389	30	200
2006	Marker	Uniball	392	50	500

# 2NF: SECOND NORMAL FORM

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- No non-prime attribute is dependent on the proper subset of any candidate key of table.

Pro_id	Pro_name
2001	pencil
2002	eraser
2003	pens
2004	scales
2005	Compass
2006	Marker

B_id	B_name
302	Apsara
312	Natraj
345	Camlin
367	Stedler
389	FaberCastle
392	Uniball

Pro_id	B_id	Price_one	Quantity
2001	302	5	100
2002	312	10	250
2003	345	20	300
2004	367	15	100
2005	389	30	200
2006	392	50	500

# 3NF: THIRD NORMAL FORM

- Table must be in 2NF
- Transitive functional dependency of non-prime attribute on any super key should be removed.

Pro_id	Pro_name
2001	pencil
2002	eraser
2003	pens
2004	scales
2005	Compass
2006	Marker

B_id	B_name
302	Apsara
312	Natraj
345	Camlin
367	Stedler
389	FaberCastle
392	Uniball

Pro_id	B_id	Price_one	Quantity
2001	302	5	100
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Pro_id	Pro_name
2001	pencil
2002	eraser
2003	pens
2004	scales
2005	Compass
2006	Marker

B_id	B_name
302	Apsara
312	Natraj
345	Camlin
367	Stedler
389	FaberCastle
392	Uniball

Pro_id	B_id	Price_one	Quantity
2001	302	5	100
2002	312	10	250
2003	345	20	300
2004	367	15	100
2005	389	30	200
2006	392	50	500

# 5) SHOPPING CART

COLUMN	COLUMN	CONSTRAINTS
CART_ID	Int	PRIMARY KEY, NOT NULL
PRODUCT_ID	int	FOREIGN KEY, NOT NULL
QUANTITY	int	NOT NULL
PRICE	int	NOT NULL

## CONSTRAINTS:

Cart\_id int primary key,  
constraint c14 foreign key(Customer\_id) references  
Customer(Customer\_id)

## FUNCTIONAL DEPENDENCIES

ADD ITEMS

# ADD ITEMS

COLUMN	DATATYPE	CONSTRAINTS
PRODUCT_ID	INT	FOREIGN KEY, NOTNULL
CART_ID	INT	FOREIGN KEY, NOTNULL
QUANTITY	INT	NOTNULL

## CONSTRAINTS:

constraint c18 foreign key(Product\_id) references

Product(Product\_id), constraint c19 foreign

key(Cart\_id) references Shopping\_cart(Cart\_id)

# TABLE

Cart_id	Cus_id	Pro_id	B_id	Price_one	Quantity
12	101	2001	302	5	100
15	203	2002	312	10	250
13	407	2003	345	20	300
10	306	2004	367	15	100
5	608	2005	389	30	200
19	236	2006	392	50	500

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Cart_id	Cus_id	Pro_id	B_id	Price_one	Quantity
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15	203	2002	312	10	250
13	407	2003	345	20	300
10	306	2004	367	15	100
5	608	2005	389	30	200
19	236	2006	392	50	500

# 2NF: SECOND NORMAL FORM

- Table is in 1NF (First normal form)
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Cart_id	Cus_id	Pro_id	B_id	Price_one	Quantity
12	101	2001	302	5	100
15	203	2002	312	10	250
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# 3NF: THIRD NORMAL FORM

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Cus_id	Cart_id
101	12
203	15
407	13
306	10
608	5
236	19

Cart_id	Pro_id	B_id
12	2001	302
15	2002	312
13	2003	345
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5	2005	389
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B_id	Pro_id	Price_one	Quantity
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367	2004	15	100
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Cart_id	Pro_id	B_id
12	2001	302
15	2002	312
13	2003	345
10	2004	367
5	2005	389
19	2006	392

B_id	Pro_id	Price_one	Quantity
302	2001	5	100
312	2002	10	250
345	2003	20	300
367	2004	15	100
389	2005	30	200
392	2006	50	500

# 6) PAYMENTS

COLUMN	COLUMN	CONSTRAINTS
PAYMENT_ID	Int	PRIMARY KEY, NOT NULL
PAYMENT_TYPE	varchar(20)	NOT NULL
TOTAL	varchar(100)	FOREIGN KEY, NOT NULL
SHOPPING_INFO	varchar(200)	NOT NULL
PRODUCT_ID	Int	NOT NULL
CART_ID	int	NOT NULL

## CONSTRAINTS:

Payment\_id int primary key,

constraint c16 foreign key(Product\_id) references Product(Product\_id),

constraint c17 foreign key(Cart\_id) references Shopping\_cart(Cart\_id)

# TABLE

Pay_id	Pay_type	total	Shopping_info	P_id	Cart_id
101010	CREDIT	950	Coloring_set	5	100
378834	DEBIT	25	Crayon_box	10	250
823848	NETBANKING	650	Jee past year book	20	300
447847	DEBIT	500	Neet book	15	100
590593	CREDIT	750	Pencil box	30	200
947878	PAYTM	325	Sketch pen	50	500

# 1NF: FIRST NORMAL FORM

The table is now in 1NF as it is atomic and not multivalued with composite primary key.

Pay_id	Pay_type	total	Shopping_info	P_id	Cart_id
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447847	DEBIT	500	Neet book	15	100
590593	CREDIT	750	Pencil box	30	200
947878	PAYTM	325	Sketch pen	50	500

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590593	CREDIT	750	Pencil box
947878	PAYTM	325	Sketch pen

Pay_id	P_id	Cart_id
101010	5	100
378834	10	250
823848	20	300
447847	15	100
590593	30	200
947878	50	500

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447847	DEBIT	500	Neet book
590593	CREDIT	750	Pencil box
947878	PAYTM	325	Sketch pen

P_id	Cart_id	Shopping_info
5	100	Coloring_set
10	250	Crayon_box
20	300	Jee past year book
15	100	Neet book
30	200	Pencil box
50	500	Sketch pen

# BCNF:BOYCE CODD NORMAL FORM

A table complies with BCNF if it is in 3NF and for every functional dependency  $X \rightarrow Y$ , X should be the super key of the table.

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101010	CREDIT	950	Coloring_set
378834	DEBIT	25	Crayon_box
823848	NETBANKING	650	Jee past year book
447847	DEBIT	500	Neet book
590593	CREDIT	750	Pencil box
947878	PAYTM	325	Sketch pen

P_id	Cart_id	Shopping_info
5	100	Coloring_set
10	250	Crayon_box
20	300	Jee past year book
15	100	Neet book
30	200	Pencil box
50	500	Sketch pen

# QUERIES RELATED TO DATABASE

# Creating and Inserting values in Table

```
mysql> CREATE TABLE customer1(cus_id int NOT NULL AUTO_INCREMENT PRIMARY KEY,cart_id int NOT NULL, email varchar(25) NOT NULL, f_name varchar(15) NOT NULL, l_name varchar(15) NOT NULL, flat_no varchar(10) NOT NULL, street_name varchar(25) NOT NULL, pincode int NOT NULL);
Query OK, 0 rows affected (0.04 sec)

mysql> CREATE TABLE customer2(city varchar(25) NOT NULL, state varchar(20) NOT NULL, pincode int NOT NULL);
Query OK, 0 rows affected (0.03 sec)

mysql> CREATE TABLE customer3( cus_id int NOT NULL AUTO_INCREMENT PRIMARY KEY, phone_no varchar(40) NOT NULL);
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> select * from customer1;
+-----+-----+-----+-----+-----+-----+-----+-----+
| cus_id | cart_id | email           | f_name | l_name | flat_no | street_name    | pincode |
+-----+-----+-----+-----+-----+-----+-----+-----+
|   101  |     12  | riya.raj2019@gmail.com | Riya   | Raj    | A-1605  | Rajeev Gandhinagar | 324005 |
|   203  |     15  | sarthak@gmail.com      | Sarthak | Murarka | 302    | MG Road          | 324005 |
|   236  |     19  | kohlirohan@gmail.com   | Rohan  | Kohil  | B-120   | Defence colony    | 479873 |
|   306  |     10  | roshan@mit.ac.in       | Roshan  | Mathew | G-302   | Bogmaoi          | 293809 |
|   407  |     13  | prateek@gmail.com       | Prateek | Sancheti | 1804  | Vittal Malya Road | 124506 |
|   608  |      5  | kumar@iocl.in          | Ishaan  | Kumar  | S-4893  | Indira Road        | 309349 |
+-----+-----+-----+-----+-----+-----+-----+-----+
6 rows in set (0.01 sec)
```

```
mysql> insert into customer2 values('Kota','Rajasthan',324005);
Query OK, 1 row affected (0.06 sec)

mysql> insert into customer2 values('Bangaluru','Karnataka',124506);
Query OK, 1 row affected (0.01 sec)

mysql> insert into customer2 values('Panaji','Goa',293809);
Query OK, 1 row affected (0.01 sec)

mysql> insert into customer2 values('Noida','Utter Pradesh',309349);
Query OK, 1 row affected (0.01 sec)

mysql> delete from customer2 where city='Noida';
Query OK, 1 row affected (0.01 sec)

mysql> insert into customer2 values('Noida','Utter Pradesh',309349);
Query OK, 1 row affected (0.01 sec)

mysql> insert into customer2 values('Delhi','Delhi',479873);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from customer2;
+-----+-----+-----+
| city      | state        | pincode |
+-----+-----+-----+
| Kota      | Rajasthan    | 324005   |
| Bangaluru | Karnataka   | 124506   |
| Panaji    | Goa          | 293809   |
| Noida     | Utter Pradesh | 309349   |
| Delhi     | Delhi         | 479873   |
+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> insert into customer3 values(101,'8379748743,8379748743');
Query OK, 1 row affected (0.01 sec)

mysql> insert into customer3 values(203,9489598585
    -> );
Query OK, 1 row affected (0.01 sec)

mysql> insert into customer3 values(407,8003356489);
Query OK, 1 row affected (0.01 sec)

mysql> insert into customer3 values(306,'8384958558,3949834934');
Query OK, 1 row affected (0.01 sec)

mysql> insert into customer3 values(608,3748748757);
Query OK, 1 row affected (0.01 sec)

mysql> insert into customer3 values(236,8459874758);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select* from customer3;
+-----+-----+
| cus_id | phone_no           |
+-----+-----+
|   101  | 8379748743,8379748743 |
|   203  | 9489598585          |
|   236  | 8459874758          |
|   306  | 8384958558,3949834934 |
|   407  | 8003356489          |
|   608  | 3748748757          |
+-----+-----+
6 rows in set (0.00 sec)
```

```
mysql> CREATE TABLE product(p_id int NOT NULL AUTO_INCREMENT PRIMARY KEY, p_name varchar(20) NOT NULL);
Query OK, 0 rows affected (0.03 sec)

mysql> insert into product values(2001, 'pencil');
Query OK, 1 row affected (0.01 sec)

mysql> insert into product values(2002, 'eraser');
Query OK, 1 row affected (0.01 sec)

mysql> insert into product values(2003, 'pens');
Query OK, 1 row affected (0.01 sec)

mysql> insert into product values(2004, 'scales');
Query OK, 1 row affected (0.01 sec)

mysql> insert into product values(2005, 'compass');
Query OK, 1 row affected (0.01 sec)

mysql> insert into product values(2006, 'marker');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from product;
+----+-----+
| p_id | p_name  |
+----+-----+
| 2001 | pencil  |
| 2002 | eraser  |
| 2003 | pens    |
| 2004 | scales  |
| 2005 | compass  |
| 2006 | marker  |
+----+-----+
6 rows in set (0.01 sec)
```

```
mysql> CREATE TABLE brand(b_id int NOT NULL AUTO_INCREMENT PRIMARY KEY, b_name varchar(20) NOT NULL);
Query OK, 0 rows affected (0.07 sec)

mysql> insert into brand values(302,'Apsara');
Query OK, 1 row affected (0.01 sec)

mysql> insert into brand values(312,'Natraj');
Query OK, 1 row affected (0.01 sec)

mysql> insert into brand values(345,'Camlin');
Query OK, 1 row affected (0.01 sec)

mysql> insert into brand values(367,'stedler');
Query OK, 1 row affected (0.01 sec)

mysql> insert into brand values(389,'Fabercastle');
Query OK, 1 row affected (0.01 sec)

mysql> insert into brand values(392,'Uniball');
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from brand;
```

b_id	b_name
302	Apsara
312	Natraj
345	Camlin
367	stedler
389	Fabercastle
392	Uniball

6 rows in set (0.00 sec)

```
mysql> CREATE TABLE quant(p_id int NOT NULL AUTO_INCREMENT PRIMARY KEY,b_id int not null ,price_one int NOT NULL, quantity int NOT NULL);
Query OK, 0 rows affected (0.07 sec)

mysql> insert into quant values(2001,302,5,100)
-> ;
Query OK, 1 row affected (0.01 sec)

mysql> insert into quant values(2002,312,10,250);
Query OK, 1 row affected (0.01 sec)

mysql> insert into quant values(2003,345,20,300);
Query OK, 1 row affected (0.01 sec)

mysql> insert into quant values(2004,367,15,100);
Query OK, 1 row affected (0.01 sec)

mysql> insert into quant values(2005,389,30,200);
Query OK, 1 row affected (0.01 sec)

mysql> insert into quant values(2006,392,50,500);
Query OK, 1 row affected (0.01 sec)

mysql> select * from quant;
+----+----+----+----+
| p_id | b_id | price_one | quantity |
+----+----+----+----+
| 2001 | 302 |         5 |      100 |
| 2002 | 312 |        10 |      250 |
| 2003 | 345 |        20 |      300 |
| 2004 | 367 |        15 |      100 |
| 2005 | 389 |        30 |      200 |
| 2006 | 392 |        50 |      500 |
+----+----+----+----+
6 rows in set (0.01 sec)
```

```
mysql> insert into cart1 values(1001,12);
Query OK, 1 row affected (0.01 sec)

mysql> insert into cart1 values(203,15);
Query OK, 1 row affected (0.01 sec)

mysql> insert into cart1 values(407,13);
Query OK, 1 row affected (0.02 sec)

mysql> insert into cart1 values(306,10);
Query OK, 1 row affected (0.01 sec)

mysql> insert into cart1 values(608,5);
Query OK, 1 row affected (0.01 sec)

mysql> insert into cart1 values(236,19);
Query OK, 1 row affected (0.01 sec)

mysql> select * from cart1;
+-----+-----+
| cus_id | cart_id |
+-----+-----+
|    203 |      15 |
|    236 |      19 |
|    306 |      10 |
|    407 |      13 |
|    608 |       5 |
|   1001 |      12 |
+-----+-----+
6 rows in set (0.00 sec)
```

```
mysql> CREATE TABLE cart2(cart_id int NOT NULL, p_id int NOT NULL primary key, b_id int NOT NULL ) COLLATE 'utf8_general_ci';
Query OK, 0 rows affected, 1 warning (0.08 sec)

mysql> insert into cart2 values(12,2001,302);
Query OK, 1 row affected (0.02 sec)

mysql> insert into cart2 values(15,2002,312);
Query OK, 1 row affected (0.01 sec)

mysql> insert into cart2 values(13,2003,345);
Query OK, 1 row affected (0.01 sec)

mysql> insert into cart2 values(10,2004,367);
Query OK, 1 row affected (0.01 sec)

mysql> insert into cart2 values(5,2005,389);
Query OK, 1 row affected (0.01 sec)

mysql> insert into cart2 values(19,2006,392);
Query OK, 1 row affected (0.01 sec)

mysql> select * from cart2
-> ;
+-----+-----+-----+
| cart_id | p_id | b_id |
+-----+-----+-----+
|      12 | 2001 |   302 |
|      15 | 2002 |   312 |
|      13 | 2003 |   345 |
|      10 | 2004 |   367 |
|       5 | 2005 |   389 |
|      19 | 2006 |   392 |
+-----+-----+-----+
6 rows in set (0.00 sec)
```

```
mysql> CREATE TABLE cart3( b_id int NOT NULL,p_id int NOT NULL primary key,price_one int NOT NULL, quantity int NOT NULL ) COLLATE 'utf8_general_ci';
Query OK, 0 rows affected, 1 warning (0.04 sec)

mysql> insert into cart3 values(302,2001,5,100);
Query OK, 1 row affected (0.03 sec)

mysql> insert into cart3 values(312,2002,10,250);
Query OK, 1 row affected (0.01 sec)

mysql> insert into cart3 values(345,2003,20,300);
Query OK, 1 row affected (0.01 sec)

mysql> insert into cart3 values(367,2004,15,100);
Query OK, 1 row affected (0.01 sec)

mysql> insert into cart3 values(389,2005,30,200);
Query OK, 1 row affected (0.01 sec)

mysql> insert into cart3 values(392,2006,50,500);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from cart3;
+-----+-----+-----+-----+
| b_id | p_id | price_one | quantity |
+-----+-----+-----+-----+
| 302 | 2001 |      5 |     100 |
| 312 | 2002 |     10 |    250 |
| 345 | 2003 |     20 |    300 |
| 367 | 2004 |     15 |    100 |
| 389 | 2005 |     30 |    200 |
| 392 | 2006 |     50 |    500 |
+-----+-----+-----+-----+
6 rows in set (0.01 sec)
```

```
mysql> CREATE TABLE payment1(pay_id int NOT NULL AUTO_INCREMENT PRIMARY KEY, pay_type varchar(20) NOT NULL, total int NOT NULL, shopping_info varchar(200) NOT NULL) COLLATE 'utf8_general_ci';
Query OK, 0 rows affected, 1 warning (0.07 sec)

mysql> insert into payment1 values(101010,'CREDIT',950,'Coloring set');
Query OK, 1 row affected (0.01 sec)

mysql> insert into payment1 values(378834,'DEBIT',25,'Crayon box');
Query OK, 1 row affected (0.01 sec)

mysql> insert into payment1 values(823848,'NETBANKING',650,'JEE past year books');
Query OK, 1 row affected (0.01 sec)

mysql> insert into payment1 values(447847,'DEBIT',500,'NEET books');
Query OK, 1 row affected (0.01 sec)

mysql> insert into payment1 values(590593,'CREDIT',750,'Pencil box');
Query OK, 1 row affected (0.01 sec)

mysql> insert into payment1 values(947878,'PAYTM',325,'Sketch pen');
Query OK, 1 row affected (0.01 sec)

mysql> select * from payment1;
+-----+-----+-----+-----+
| pay_id | pay_type | total | shopping_info |
+-----+-----+-----+-----+
| 101010 | CREDIT   | 950  | Coloring set  |
| 378834 | DEBIT    | 25   | Crayon box   |
| 447847 | DEBIT    | 500  | NEET books   |
| 590593 | CREDIT   | 750  | Pencil box   |
| 823848 | NETBANKING | 650  | JEE past year books |
| 947878 | PAYTM    | 325  | Sketch pen   |
+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

```
mysql> CREATE TABLE payment2(p_id int NOT NULL AUTO_INCREMENT PRIMARY KEY, cart_id int NOT NULL, shopping_info varchar(200) NOT NULL) COLLATE 'utf8_general_ci';
Query OK, 0 rows affected, 1 warning (0.07 sec)

mysql> insert into payment2 values(5,100,'Coloring set');
Query OK, 1 row affected (0.02 sec)

mysql> insert into payment2 values(10,250,'Crayon box');
Query OK, 1 row affected (0.01 sec)

mysql> insert into payment2 values(20,300,'JEE past year book');
Query OK, 1 row affected (0.01 sec)

mysql> insert into payment2 values(15,100,'NEET book');
Query OK, 1 row affected (0.01 sec)

mysql> insert into payment2 values(30,200,'Pencil box');
Query OK, 1 row affected (0.01 sec)

mysql> insert into payment2 values(50,500,'Sketch pen');
Query OK, 1 row affected (0.01 sec)

mysql> select* from payment2;
+-----+-----+-----+
| p_id | cart_id | shopping_info   |
+-----+-----+-----+
|    5 |     100 | Coloring set   |
|   10 |     250 | Crayon box    |
|   15 |     100 | NEET book     |
|   20 |     300 | JEE past year book |
|   30 |     200 | Pencil box    |
|   50 |     500 | Sketch pen    |
+-----+-----+-----+
6 rows in set (0.00 sec)
```

# REFERENCES

- Database Management Systems  
Book by Johannes Gehrke and Raghu Ramakrishnan
- Fundamentals of Database Systems  
Book by Ramez Elmasri
- Learning SQL  
Book by Alan Beaulieu
- JavaScript: The Good Parts  
Book by Douglas Crockford

THANK YOU!