# JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY, NOIDA COMPUTER SCIENCE DEPARTMENT

## ONLINE SHOPPING DATABASE SYSTEM



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SUBMITTED TO:

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#### **Project Overview:**

This Database system is for a online shop who has various products. The customers can add different products from the shop to the cart and get the order details of the product. The shop owner can get the all details of the customer about the purchase from the database.

## **Application of the System:**

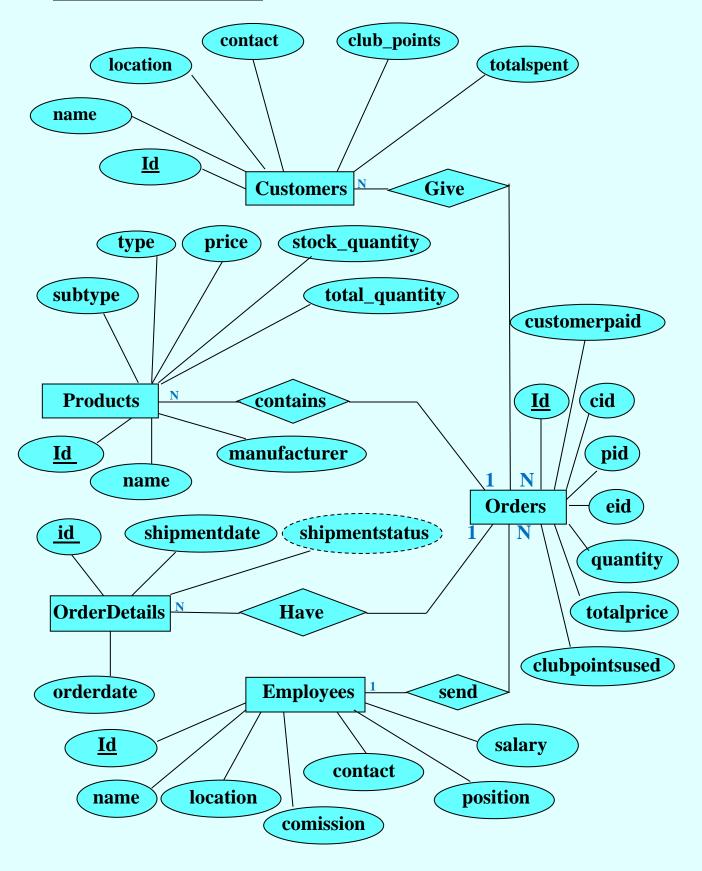
The system contains various procedures, triggers and function to do different types of action in the system like updating stocks, changing prices ,giving membership to the customers. System has functions to find out the number of orders, number of purchases and total amount earned from a particular product. In System queries are used to get the selling percentage of all the products and to know about the orders have not been delivered yet. In this online shopping database system we have used PL/SQL and MySQL.

#### **Database Overview:**

The database will contain 6 tables. The tables are:

- <u>Customers:</u> contains Id, name, location, contact, club points and total spent. Id is the primary key. Contact must be unique. Club points and total spent will be default to 0.
- <u>Employees:</u> contains id, name, location, contact, position, salary and commission. Id is the primary key. Contact must be unique. Salary and commission will be default to 0.
- **Products:** contains id, name, manufacturer, type, subtype, price, stock quantity and total quantity sold so far(from the beginning of company). Id is the primary key. Price and stock\_quantity should be greater than 0.
- Orders: contains id, customer id, employee id, product id, quantity, total price, clubPointUsed and customerPaid. Id is the primary key. Quantity and total price should be greater than 0.
- <u>OrderDetails</u>: contains order id, order date, possible shipping date(automatically three days from order date), shipment status. Order id is both the primary key and foreign key. Order id references from id of Orders table.

# **ER Diagram of the system:**



## **Creating Tables:-**

```
mysql> create database online shopping database system;
Query OK, 1 row affected (0.08 sec)
mysql> use online shopping database system;
Database changed
mysql> CREATE TABLE Customers
   -> ( id integer
   -> , name VARCHAR(200) NOT NULL
   -> , location VARCHAR(1000) NOT NULL
   -> , contact INTEGER NOT NULL UNIQUE
   -> , clubPoints INTEGER DEFAULT 0
   -> , totalSpent INTEGER DEFAULT 0
         PRIMARY KEY(id));
Query OK, 0 rows affected (0.05 sec)
mysql> CREATE TABLE Employees
   -> ( id INTEGER
          name VARCHAR(200)
   -> , location VARCHAR(1000)
   -> , contact VARCHAR(15) NOT NULL UNIQUE
   -> , position VARCHAR(100) NOT NULL
   -> , salary INTEGER DEFAULT 0
   -> , commission INTEGER DEFAULT 0
          PRIMARY KEY(id));
Query OK, 0 rows affected (0.05 sec)
mysql> CREATE TABLE Products
   -> ( id INTEGER
   -> , name VARCHAR(200) NOT NULL
   -> , manufacturer VARCHAR(200) NOT NULL
   -> , type VARCHAR(200) NOT NULL
   -> , subtype VARCHAR(200) NOT NULL
   -> , price INTEGER NOT NULL CHECK(price >= 0)
          quantityInStock INTEGER CHECK(quantityInStock >= 0)
   -> , totalQuantitySold INTEGER DEFAULT 0
          PRIMARY KEY(id));
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> CREATE TABLE Orders
           id INTEGER
    -> (
           cid INTEGER
           eid INTEGER
           pid INTEGER
           quantity INTEGER CHECK(quantity > 0)
           clubPointsUsed INTEGER
           totalPrice INTEGER CHECK(totalPrice > 0)
           customerPaid INTEGER
           PRIMARY KEY(id)
           FOREIGN KEY(cid) REFERENCES customers(id)
           FOREIGN KEY(eid) REFERENCES employees(id)
           FOREIGN key(pid) REFERENCES products(id));
Query OK, 0 rows affected (0.07 sec)
mysql> CREATE TABLE OrderDetails
          id INTEGER
    -> (
          orderDate DATE NOT NULL
           shipmentDate DATE NOT NULL
           shipmentStatus varchar(100) DEFAULT 'PROCESSING'
          PRIMARY KEY(id)
          FOREIGN KEY(id) REFERENCES orders(id));
Query OK, 0 rows affected (0.03 sec)
```

#### **Inserting data:-**

```
mysql> insert into customers values
    -> (1,'Rahul_Malik','Sonipat',14778,7,5500),
    -> (2,'Amisha_Sharma','Nagpur',14375,3,1500),
    -> (3,'Mansi_Joshi','Haldwani',14343,5,3500),
    -> (4,'Paras_Garg','Bhopal',14453,4,3000),
    -> (5,'Shivam_Goyal','Delhi',14374,6,3500),
    -> (6,'Gaurav_Nayak','Rohtak',14574,8,6000),
    -> (7,'Sachin_Khatri','Chandigarh',14584,5,3500),
    -> (8,'Rahul_Goyal','Kolkata',14564,5,3500),
    -> (9,'Tanmay_Sharma','Mumbai',14562,6,3500),
    -> (10,'Anshu_Dixit','Dehradun',14561,7,5500),
    -> (11,'Sanjeev_Sharma','Lucknow',14550,3,1500),
    -> (12,'Abhishek_Dixit','Raipur',14530,4,3000),
    -> (13,'Naman_Garg','Jaipur',14599,4,3000),
    -> (14,'Himani_Jain','Shimla',14589,1,500),
    -> (15,'Akhsay_Jain','Shimla',14580,2,1000);
Query OK, 15 rows affected (0.07 sec)
Records: 15 Duplicates: 0 Warnings: 0
```

```
mysql> insert into employees values
      -> (101, 'Ayush_Garg', 'Lucknow', '9764538820', 'Accountant', 18000, 250),
      -> (102, 'Piyush_Singh', 'chandigarh', '9263518923', 'Manager', 22000, 350),
     -> (102, Pryush_Singh, Chandigarn, 9203518923, Manager, 22000,350),
-> (103, 'Arjun_hooda', 'Delhi', '9593919983', 'Quality_Incharge',20000,300),
-> (104, 'Sheetal_Joshi', 'Delhi', '9183818983', 'Marketing',15000,200),
-> (105, 'Reena_Hooda', 'Rohtak', '9585858985', 'sales_employee',16000,230),
-> (106, 'Anshika_Rai', 'Patna', '9475758787', 'Marketing',15000,200),
-> (107, 'Shubam_Garg', 'Noida', '9272728642', 'sales_employee',16000,230),
-> (108, 'Rahul_Jain', 'Agra', '9151329622', 'sales_employee',16000,230),
      -> (109, 'Kritika_Agarwal', 'Sonipat', '9050347652', 'Accountant', 18000, 250),
      -> (110, 'Jagbir_Singh', 'Noida', '9255937688', 'Quality_incharge', 20000, 300);
Query OK, 10 rows affected (0.03 sec)
Records: 10 Duplicates: 0 Warnings: 0
mysql> insert into products values
      -> (8554, 'Pasta', 'Maggi', 'food', 'snack', 25, 205, 19),
-> (8506, 'Biscuit', 'parle_g', 'food', 'snack', 10, 200, 50),
      -> (8660, 'pickel', 'Mother_pickel', 'food', 'snack', 55,91,9),
      -> (0966, 'Almond_oil', 'Bajaj', 'Hair_products', 'oil', 50,69,11),
-> (8900, 'Lifebouy', 'Lifebouy', 'Skin_care', 'Soap', 15,89,24),
     -> (8603, 'Ponds_facecream', 'Ponds', 'Skin_care', 'Cream', 64,59,14),
-> (8658, 'Khata_Metha', 'bikaner', 'Food', 'Snack', 22,60,24),
-> (8696, 'chocochips', 'Goodday', 'Food', 'Snack', 25,72,18),
      -> (8555, 'facewash', 'Garnier', 'skin_care', 'facewash', 89,71,22),
     -> (8303, 'sauce', 'Heinz', 'food', 'snack',92,70,21),
-> (8203, 'pan', 'crystal', 'Accessories', 'kitchen_accessories',179,54,16),
-> (8443, 'KingFisher_Beer', 'Kingfisher', 'food', 'Liquor',450,66,26),
-> (8432, 'Smart_watch', 'Fastrack', 'Accessories', 'Fashion_accessories',1450,66,12),
      -> (8922, 'Tshirt', 'jockey', 'Clothes', 'mens', 550, 76, 32),
      -> (8884, 'Garam_Masala', 'catch', 'food', 'spices', 55, 86, 26),
     -> (8559, 'Dettol', 'Dettol', 'Skin_care', 'soap', 20, 56, 36),
-> (8474, 'Saffola-oil', 'Saffola', 'food', 'food_oil', 149, 62, 29),
-> (2665, 'Action_shoes', 'Action', 'clothes', 'Shoes', 2349, 28, 2);
Query OK, 18 rows affected (0.03 sec)
Records: 18 Duplicates: 0 Warnings: 0
mysql> insert into Orders values
       -> (201,1,105,2665,1,3,2349,2208),
       -> (202,2,108,8203,1,1,179,175),
       -> (203,3,107,8559,6,1,60,58),
       -> (204,6,105,8443,2,3,900,846),
       -> (205,4,107,8303,1,2,92,88),
       -> (206,1,108,8922,1,2,550,528),
       -> (207,9,108,8555,2,2,178,170),
       -> (208,8,105,0966,1,2,50,48),
       -> (209,10,107,2665,1,5,2349,2114),
       -> (210,11,108,8658,2,3,44,41),
       -> (211,13,105,8474,1,2,149,143),
       -> (212,15,107,8554,2,2,50,48);
Query OK, 12 rows affected (0.05 sec)
Records: 12 Duplicates: 0 Warnings: 0
```

```
mysql> insert into orderdetails values
-> (201,"2021-01-16","2021-01-20",'Done'),
-> (202,"2021-01-18","2021-01-22",'Done'),
-> (203,"2021-02-01","2021-02-05",'Done'),
-> (204,"2021-02-15","2021-02-19",'Done'),
-> (205,"2021-02-22","2021-02-26",'Done'),
-> (206,"2021-03-15","2021-03-19",'Done'),
-> (207,"2021-04-02","2021-04-06",'Done'),
-> (208,"2021-05-25","2021-05-29",'Done'),
-> (209,"2021-07-01","2021-07-05",'Done'),
-> (210,"2021-07-13","2021-07-17",'Processing'),
-> (211,"2021-07-16","2021-07-20",'Processing'),
-> (212,"2021-07-20","2021-07-24",'Processing');
Query OK, 12 rows affected (0.05 sec)
Records: 12 Duplicates: 0 Warnings: 0
```

#### Data:-

#### **Table: Customers**

id	name	location	contact	clubPoints	totalSpent
<del> </del> 1	Rahul Malik	+   Sonipat	+   14778		+ 5500
2	Amisha Sharma	Nagpur	14375	3	1500
3	Mansi_Joshi	Haldwani	14343	5	3500
4	Paras_Garg	Bhopal	14453	4	3000
5	Shivam_Goyal	Delhi	14374	6	3500
6	Gaurav_Nayak	Rohtak	14574	8	6000
7	Sachin_Khatri	Chandigarh	14584	5	3500
8	Rahul_Goyal	Kolkata	14564	5	3500
9	Tanmay_Sharma	Mumbai	14562	6	3500
10	Anshu_Dixit	Dehradun	14561	7	5500
11	Sanjeev_Sharma	Lucknow	14550	3	1500
12	Abhishek_Dixit	Raipur	14530	4	3000
13	Naman_Garg	Jaipur	14599	4	3000
14	Himani_Jain	Shimla	14589	1	500
15	Akhsay_Jain	Shimla	14580	2	1000
		+	+		

# **Table: Employees**

```
nysql> select * from employees;
     name
                         location
                                     contact
                                                  position
                                                                      | salary | commission
       Ayush Garg
                         Lucknow
                                       9764538820
                                                    Accountant
                                                                         18000
                                                                                        250
       Piyush Singh
  102
                          chandigarh
                                       9263518923
                                                    Manager
                                                                         22000
                                                                                        350
       Arjun hooda
                          Delhi
                                                    Quality_Incharge |
  103
                                       9593919983
                                                                         20000
                                                                                        300
       Sheetal_Joshi
                          Delhi
  104
                                       9183818983
                                                    Marketing
                                                                         15000
                                                                                        200
       Reena Hooda
                                                    sales_employee
  105
                          Rohtak
                                       9585858985
                                                                         16000
                                                                                        230
       Anshika_Rai
  106
                          Patna
                                       9475758787
                                                    Marketing
                                                                         15000
                                                                                        200
  107
       Shubam_Garg
                          Noida
                                       9272728642
                                                    sales_employee
                                                                         16000
                                                                                        230
       Rahul_Jain
  108
                          Agra
                                       9151329622
                                                    sales_employee
                                                                         16000
                                                                                        230
  109
        Kritika_Agarwal
                          Sonipat
                                       9050347652
                                                    Accountant
                                                                         18000
                                                                                        250
       Jagbir_Singh
  110
                         Noida
                                       9255937688
                                                    Quality_incharge
                                                                         20000
                                                                                        300
10 rows in set (0.01 sec)
```

# **Table: Products**

d	name	manufacturer	type	subtype	price	quantityInStock	totalQuantitySold
966	Almond_oil	   Bajaj	Hair_products	oil	   50	69	   11
665	Action_shoes	Action	clothes	Shoes	2349	28	2
203	pan	crystal	Accessories	kitchen_accessories	179	54	16
303	sauce	Heinz	food	snack	92	70	21
432	Smart_watch	Fastrack	Accessories	Fashion_accessories	1450	66	12
443	KingFisher_Beer	Kingfisher	food	Liquor	450	66	26
474	Saffola-oil	Saffola	food	food_oil	149	62	29
506	Biscuit	parle_g	food	snack	10	200	56
554	Pasta	Maggi	food	snack	25	205	19
555	facewash	Garnier	skin_care	facewash	89	71	22
559	Dettol	Dettol	Skin_care	soap	20	56	36
503	Ponds_facecream	Ponds	Skin_care	Cream	64	59	14
658	Khata_Metha	bikaner	Food	Snack	22	60	24
560	pickel	Mother_pickel	food	snack	55	91	<u> </u>
596	chocochips	Goodday	Food	Snack	25	72	18
884	Garam_Masala	catch	food	spices	55	86	26
900	Lifebouy	Lifebouy	Skin_care	Soap	15	89	24
922	Tshirt	jockey	Clothes	mens	550	76	32

# **Table: Orders**

mysql>	mysql> select * from orders; +++++											
id	cid	eid	pid	quantity	clubPointsUsed	totalPrice	customerPaid					
201	1	105	2665	1	3	2349	2208					
202   203	2	108   107	8203 8559	6	1	179   60	175     58					
204   205	6   4	105   107	8443 8303	2 1	3 2	900 92	846     88					
206   207	1   9	108   108	8922 8555	1 2	2 2	550 178	528     170					
208   209	8   10	105 107	966 2665	1   1	2 5	50 2349	48     2114					
210   211	11 13	108 105	8658 8474	2	3	44 149	41     41     143					
212	15	107	8554	2	2	50	48					
12 rows	s in set	t (0.00	sec)									

# **Table: Orderdetails**

mysgl> select * from orderdetails;									
mysql> sele	ct * from o	rderdetails;							
id   ord	+ erDate	hipmentDate	shipmentStatus						
201   202	1-01-16   2	021-01-20	Done						
202   202	1-01-18   2	021-01-22	Done						
203   202	1-02-01   2	021-02-05	Done						
204   202	1-02-15   2	021-02-19	Done						
205   202	1-02-22   2	021-02-26	Done						
206   202	1-03-15   2	021-03-19	Done						
207   202	1-04-02   2	021-04-06	Done						
208   202	1-05-25   2	021-05-29	Done						
209   202	1-07-01   2	021-07-05	Done						
210   202	1-07-13   2	021-07-17	Processing						
211   202	1-07-16   2	021-07-20	Processing						
212   202	1-07-20   2	021-07-24	Processing						
+		+	+						
12 rows in	set (0.00 s	ec)							

## **Queries:-**

1. Procedure to find out the membership status on the basis of total money spent by the customers. 'Platinum' given to customer who spent more than 5000, 'Gold' to customers spent between 2000 to 5000 and 'silver' to rest of the customers.

```
mysql> DELIMITER $$
mysql> CREATE PROCEDURE Membership(
    -> IN ctid integer,
    -> OUT result Varchar(20))
    -> BEGIN
    -> DECLARE spent DECIMAL DEFAULT 0;
    -> SELECT totalspent
    -> INTO spent
    -> FROM customers
    -> WHERE id = ctid;
    -> IF spent > 5000 THEN
    -> SET result = 'PLATINUM';
    -> ELSEIF spent <= 5000 AND spent > 2000 THEN
    -> SET result = 'GOLD';
    -> ELSE
    -> SET result = 'SILVER';
    -> END IF;
    -> END $$
Query OK, 0 rows affected (0.01 sec)
```

## **Testing:-**

```
mysql> Call Membership(1,@result);
-> select @result;
-> $$
Query OK, 1 row affected (0.01 sec)

+-----+
| @result |
+-----+
| PLATINUM |
+-----+
1 row in set (0.01 sec)
```

2. Trigger to update the stock when ever a order is placed the quantity in stock and total quantity sold of that product will be updated.

```
mysql> DELIMITER //
mysql>
mysql> CREATE TRIGGER UpdateStock
-> AFTER INSERT ON orders
-> FOR EACH ROW
->
-> BEGIN
-> UPDATE PRODUCTS
-> SET quantityinstock = quantityinstock - 1
-> WHERE new.pid = products.id;
-> UPDATE PRODUCTS
-> SET Totalquantitysold = Totalquantitysold + 1
-> WHERE new.pid = products.id;
-> END;
->
-> //
Query OK, 0 rows affected (0.04 sec)
```

## **Testing:-**

#### **Before insertion:**

id	name	manufacturer	type	subtype	price	quantityInStock	totalQuantitySol
966	Almond_oil	Bajaj	Hair_products	oil	50	69	11
2665	Action_shoes	Action	clothes	Shoes	2349	28	]
8203	pan	crystal	Accessories	kitchen_accessories	179	54	10
8303	sauce	Heinz	food	snack	92	70	2:
8432	Smart_watch	Fastrack	Accessories	Fashion_accessories	1450	66	1
8443	KingFisher_Beer	Kingfisher	food	Liquor	450	66	2
8474	Saffola-oil	Saffola	food	food_oil	149	62	2
8506	Biscuit	parle_g	food	snack	10	200	5
9554	Pacta	Maggi	food	snack	25	205	1
8555	facewash	Garnier	skin_care	facewash	89	71	2
ودده	Dettol	Dettol	Skin_care	seap	20	56	٦.
8603	Ponds_facecream	Ponds	Skin_care	Cream	64	59	1
8658	Khata_Metha	bikaner	Food	Snack	22	60	2
8660	pickel	Mother_pickel	food	snack	55	91	
8696	chocochips	Goodday	Food	Snack	25	72	1
8884	Garam_Masala	catch	food	spices	55	86	2
8900	Lifebouy	Lifebouy	Skin_care	Soap	15	89	2
8922	Tshirt	jockey	Clothes	mens	550	76	3:

#### **After insertion:**

uery OK, 1 row affected (0.01 sec)										
sql>	select * from produ	ucts;								
->	//									
id	name	manufacturer	type	subtype	price	quantityInStock	totalQuantitySold			
966	Almond_oil	Bajaj	Hair_products	oil	   50	69	11			
2665	Action_shoes	Action	clothes	Shoes	2349	28	2			
8203	pan	crystal	Accessories	kitchen_accessories	179	54	16			
8303	sauce	Heinz	food	snack	92	70	21			
8432	Smart_watch	Fastrack	Accessories	Fashion_accessories	1450	66	12			
8443	KingFisher_Beer	Kingfisher	food	Liquor	450	66	26			
8474	Saffola-oil	Saffola	food	food_oil	149	62	29			
8506	Biscuit	parle_g	food	snack	10	200	50			
2554	Pasta	Maggi	food	snack	25	205	19			
8555	facewash	Garnier	skin_care	facewash	89	70	23			
צככט	Derroi	DELLOI	Skin_care	зоар	20		36			
8603	Ponds_facecream	Ponds	Skin_care	Cream	64	59	14			
8658	Khata_Metha	bikaner	Food	Snack	22	60	24			
8660	pickel	Mother_pickel	food	snack	55	91	9			
8696	chocochips	Goodday	Food	Snack	25	72	18			
8884	Garam_Masala	catch	food	spices	55	86	26			
8900	Lifebouy	Lifebouy	Skin_care	Soap	15	89	24			
8922	Tshirt	jockey	Clothes	mens	550	76	32			

3. Trigger to update the total amount spent by the customer, each time When customers give s order the amount paid by the customer will be added.

## **Testing:-**

#### Before giving order:

<- +	· // 	+	+	+	+
id	name	location	contact	clubPoints	totalSpent
1	Rahul_Malik	Sonipat	14778	7	5500
2	Amisha_Sharma	Nagpur	14375	3	1500
3	Mansi_Joshi	Haldwani	14343	5	3500
4	Paras_Garg	Bhopal	14453	4	3000
5	Shivam_Goyal	Delhi	14374	6	3500
6	Gaurav_Nayak	Rohtak	14574	8	6000
7	Sachin_Khatri	Chandigarh	14584	5	3500
8	Rahul_Goyal	Kolkata	14564	5	3500
9	Tanmay_Sharma	Mumbai	14562	6	3500
LØ	Anshu Dixit	Dehradun	14561	7	5500
11	Sanjeev_Sharma	Lucknow	14550	3	1500
L2	Abhishek Dixit	Raipur	14530	4	3000
L3	Naman_Garg	Jaipur	14599	4	3000
L4	Himani_Jain	Shimla	14589	1	500
L5 İ	Akhsay Jain	Shimla	14580	2	1000

#### After giving order:

```
mysql> insert into orders values(214,1,107,8203,1,1,179,175);
Query OK, 1 row affected (0.03 sec)
mysql> select * from customers;
    -> //
  id | name
                       location
                                     | contact | clubPoints | totalSpent
       Rahul Malik
                        Sonipat
                                        14778
                                                                     5675
       Amisha_Sharma
                         Nagpur
                                        14375
                                                          3
                                                                     1500
       Mansi_Joshi
                         Haldwani
                                        14343
                                                                     3500
                                        14453
       Paras_Garg
                         Bhopal
                                                                     3000
                         Delhi
                                                          6
       Shivam_Goyal
                                        14374
                                                                     3500
       Gaurav_Nayak
                         Rohtak
                                        14574
                                                          8
                                                                     6000
       Sachin_Khatri
                         Chandigarh
                                        14584
                                                                     3500
       Rahul_Goyal
                         Kolkata
                                        14564
                                                                     3500
   9
       Tanmay_Sharma
                         Mumbai
                                        14562
                                                                     3500
  10
       Anshu_Dixit
                         Dehradun
                                        14561
                                                                     5500
  11
       Sanjeev_Sharma
                         Lucknow
                                        14550
                                                                     1500
  12
       Abhishek_Dixit
                         Raipur
                                        14530
                                                                     3000
  13
       Naman_Garg
                         Jaipur
                                        14599
                                                                     3000
  14
       Himani_Jain
                         Shimla
                                        14589
                                                                     500
       Akhsay_Jain
                         Shimla
                                        14580
                                                                     1000
15 rows in set (0.00 sec)
```

4. Function to get the no. of orders in a particular period of time.

#### **Testing:-**

5. Function to get the amount earned from a particular product.

```
mysql> CREATE FUNCTION totalamount(pd integer) returns integer DETERMINISTIC
   -> BEGIN
   -> DECLARE RESULT INTEGER DEFAULT 0;
   -> select SUM(customerPaid) into RESULT from orders where pid=pd;
   -> return RESULT;
   -> END;
   -> //
Query OK, 0 rows affected (0.04 sec)
```

#### **Testing:-**

6. Function to get the number of times a customer has purchased the product.

```
mysql> delimiter //
mysql> CREATE FUNCTION NOOFPURCHASE(ct integer) returns integer DETERMINISTIC
    -> BEGIN
    -> DECLARE Result INTEGER DEFAULT 0;
    -> select count(*) into Result from orders where cid=ct;
    -> return Result;
    -> END;
    -> //
Query OK, 0 rows affected (0.04 sec)
```

#### **Testing:-**

7. Procedure to change price according to their selling percentage using cursor as if the selling percentage is less than 3% than price will fall by 5,if the selling percentage is higher than 10% than price will rise by 5 and price of all the rest products will rise by 2.

```
mysql> DELIMITER $$
mysql> CREATE PROCEDURE changeprice()
   -> BEGIN
   -> DECLARE finished integer DEFAULT 0;
   -> DECLARE sold integer DEFAULT 0;
   -> DECLARE qleft integer DEFAULT 0;
   -> DECLARE qtotal integer DEFAULT 0;
   -> DECLARE pr DECIMAL DEFAULT 0;
   -> DECLARE c CURSOR
   -> FOR SELECT totalQuantitySold , quantityInStock FROM products;
   -> DECLARE CONTINUE HANDLER
   -> FOR NOT FOUND SET finished = 1;
   -> OPEN c;
   -> Getpr:LOOP
   -> FETCH NEXT FROM C INTO sold, qleft;
   -> SET qtotal = sold + qleft;
   -> SET pr= (sold/qtotal)*100;
   -> If pr<3 then
   -> Update products Set price = price-5;
   -> Elseif pr>10 then
   -> Update products Set price = price +5;
   -> Else
   -> Update products Set price = price+2;
   -> END IF;
   -> IF finished=1 then
   -> Leave getpr;
   -> END IF;
   -> END LOOP Getpr;
   -> CLOSE c;
   -> END $$
Query OK, 0 rows affected (0.01 sec)
```

8. Query to add a column in the products table to find out the selling percentage of all the products.

# **Testing:-**

d İ	name	manufacturer	type	subtype	price	quantityInStock	totalQuantitySold	selling_percentage
+-	A3   1   13		+	+	+	t		42.7
	Almond_oil	Bajaj	Hair_products		50	69	11	13.7
	Action_shoes	Action	clothes	Shoes	2349	28		6.6
	pan	crystal	Accessories	kitchen_accessories		53	17	24.29
	sauce	Heinz	food	snack	92	70	21	23.0
	Smart_watch	Fastrack	Accessories	Fashion_accessories		66	12	15.3
	KingFisher_Beer	Kingfisher	food	Liquor	450	66	26	28.2
174	Saffola-oil	Saffola	food	food_oil	149	62	29	31.8
i06   1	Biscuit	parle_g	food	snack	10	200	50	20.0
54   1	Pasta	Maggi	food	snack	25	205	19	8.4
55	facewash	Garnier	skin_care	facewash	89	70	23	24.7
59   1	Dettol	Dettol	Skin_care	soap	20	56	36	39.1
i03   I	Ponds_facecream	Ponds	Skin care	Cream	64	59	14	19.1
58	Khata Metha	bikaner	Food	Snack	22	60	24	28.5
60	pickel	Mother_pickel	food	snack	55	91	9	9.0
96	chocochips	Goodday	Food	Snack	25	72	18	20.0
	Garam Masala	catch	food	spices	55	86	26	23.2
	Lifebouy	Lifebouv	Skin care	Soap	15	89	24	21.2
	Tshirt	jockey	Clothes	mens	550	76	32	29.6

9. Query to select the names of the employees and customers who live in the same location and can contact the customers to give them update about sale and special offers.

```
mysql> select e.name,c.name
   -> from employees e,customers c,orders o
   -> where o.eid=e.id and o.cid=c.id
   -> and e.location=c.location;
   -> //
```

# **Output:**

10. Query to find out the all order details of the orders having payment done but the delivery is in process.

```
mysql> select * from
-> orders o, orderdetails od
-> where o.id=od.id and shipmentstatus='Processing';
-> //
```

# **Output:**

+   id	+   cid	+   eid	+   pid	+   quantity	+   clubPointsUsed	totalPrice	+   customerPaid	+   id	orderDate	+   shipmentDate	+   shipmentStatus
210 211 212	11   13   15	105	8658   8474   8554	1	3   2   2	44 149 50	143	211	2021-07-13 2021-07-16 2021-07-20	2021-07-20	Processing     Processing     Processing
3 rows	in set	(0.00	sec)	+	+	+	+	+	+	+	++