• Project Name: Cosmetic Shop Management system

• DatabaseName: Cosmetic Shop Management system

• Database Software: Oracle 10g

Database Description:

Cosmetic shop management system is a complete solution for managing a shop. In other words, on enhanced tool that assists in organizing the day to day entities of a store. There is a need of an application for the sufficient management and handling customer orders. The cosmetic shop management system keeps every record and by reducing paperwork.

Product details include product id,product name,product price ,color,brand, etc. Customer table includes details such as customer id ,customer name, address and contact no,etc. Employee details includes detail such as employee id , name, address, phone no. payment details includes details such as payment no, type,totalamount.Order_info details include details such as order id, ordered date, received date, etc.

List of tables:

- **Product table** (This table include details about product. This table include attribute such as id, name, price, color, etc.)
- **Customer table**(This table include details about customer. This table include attributes such as id, name, address,contact no, etc.)
- **Payment table** (This table includes details about payment details. This table includes no, payment type, price, date, etc.)
- **Employee table** (This table includes details about employees who worked in shop. This table include attributes such as name, id, salary,deptno,address,contact no etc.)
- **Order_info table** (This table includes details of orders . This table include attributes such as order_id, ordered_date,required_date, etc.)

• List of Constraints applied on tables:

- 1.Primary key constraint.
- 2. Foreign key constraint.
- 3. Unique key constraint.
- 4. Not Null constraint.
- 5. Check constraint.

Normalized Forms of court management system:

Database without normalization:

Product	Product	Product	color	Brand
Id	name	price		
101	Lipstick	200	Red	Lakme
102	FaceWash	300	NULL	Oriflame
103	Eyeliner	400	Black	Loreal
104	Lipbalm	250	Pink	Lakme

Customer	Customer	Address	Contact	Employee
id	name		no	id
10	Pallavi	Sinhagad Road	8989898989	111
20	Shreya	Mumbai	8767676567	112
30	Samiksha	Pune	3467890987	113
40	Shubhada	Kolhapur	9090878765	114

Employee Dept no Employee Employee Contact
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name		salary	Qualification	no
Sakshi	10	90000	Engineer	5667898889
Hindavi	20	78900	Engineer	1234455666
Sanika	10	80000	Engineer	6789890987
Prerana	10	67787	Engineer	9876543201

Payment	Payment	Amount	Order id	Order
no	type			date
1234	Cash	8000	1111	31-MAY-2018
5678	Credit Card	10000	2222	1-FEB-2018
9012	Online	12000	3333	3-MAR-2018
3456	Cash	3000	4444	24-APR-2017

1NF(First Normal Form):

FIELD	KEY
Product id	Primary key
Customer id	Primary key
Employee id	Primary key
Payment no	Primary key
Order id	Primary Key

2)Second Normal Form(2NF):

a.Product Table

Product	Product	Product	Product	Brand
ID	name	price	Color	
101	Lipstick	220	Red	Lakme
102	Eyeliner	300	Black	Lakme
103	Lipbalm	150	Pink	Lakme

b. Customer table:

Customer id	Customer Name	Customer address	Contact no
10	Pallavi	Pune	5678909090
11	Samiksha	Mumbai	5678989898

c. Employee table:

Employee id	Employee name	Dept no	Employee
			salary
111	Shreya	10	90000
112	Shubhada	20	80000
113	Sanika	10	70000

d. Payment table:

Payment no	Payment	amount
	Туре	
1234	Cash	9000
3456	Card	8000
5678	Online	10000

e. Order table:

Order id	Order date	Required date
1111	31-May-2018	1-Jun-2018
2222	21-May-2018	22-Jun-2018

Queries on Cosmetic Shop Management System:

1.Displayproduct id, product name and product price from product table where product price is greater than 2000.

```
SQL> select product_id,product_name,product_price from product

2 where product_id in(select product_id from product where

3 product_price>2000);

PRODUCT_ID PRODUCT_NAME PRODUCT_PRICE

105 Oil 5000

104 Lip bulm 4000

103 Shampoo 3000
```

2. Display id,name,price,color of product from product table whose price is greater than or equal to 2000 according to product id.

```
SQL> select product_id,product_name,product_price,product_colour
2 from product where product_price>=2000 order by product_id;

PRODUCT_ID PRODUCT_NAME PRODUCT_PRICE PRODUCT_COLOUR

102 Eyelinear 2000 Black
103 Shampoo 3000 White
104 Lip bulm 4000 Red
105 Oil 5000 Yellow
```

3. Update product price from product table whose product id is greater than or equal to 103.

```
SQL> update product set product_price=product_price*0.25
2 where product_id in(select product_id from product where
3 product_id>=103);

3 rows updated.
```

4.Display id,name,colour,brand of product whose id is graeter than or equal to 103 and find sum of product id.

```
SQL> select product_id,product_name,product_brand,product_colour
2 from product group by product_id,product_name,product_brand,
3 product_colour having sum(product_id)>=103;

PRODUCT_ID PRODUCT_NAME PRODUCT_BRAND PRODUCT_COLOUR

101 Lipstick Lakme Pink
103 Shampoo Head shoulder White
105 Oil Douber Almond Yellow
104 Lip bulm Strawerry Red
```

5)Display product name from product table whose product name start from L and product id not in 101,103 and 105.

```
SQL> select product_name from product where product_name
   2 like '1%' and product_id not in(101,103,105);
no rows selected
```

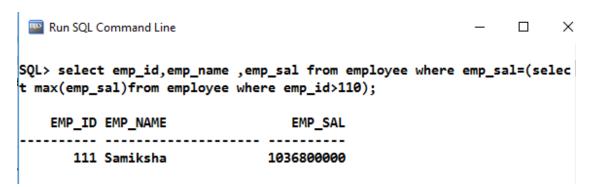
5)Display id,name and salary of employee whose salary is greater than avg salary of employee.

SQL:	Run SQL Command Line	_	×
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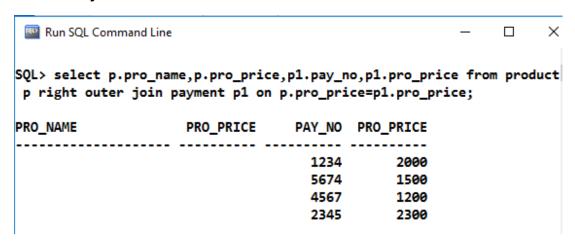
SQL> select emp_id,emp_name,emp_sal from employee where emp_sal>(select avg(emp_sal)from employee where emp_id>111);

EMP_ID	EMP_NAME	EMP_SAL
111	Samiksha	1036800000
113	Hindavi	60000
114	Alfiya	72000
115	Shubhada	66000

6)Display emp id,emp name and emp salary of employee whose salary is maximum.



7)Display product name, product price and payment no from two tables using left outer join.



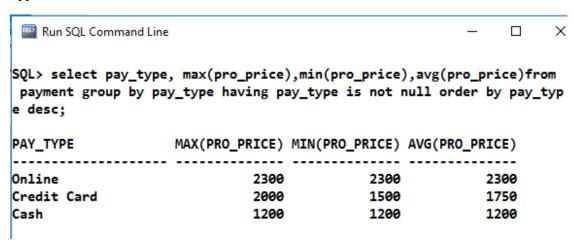
8)Display product name, product name, payment no from two table if product price are same in both the table.



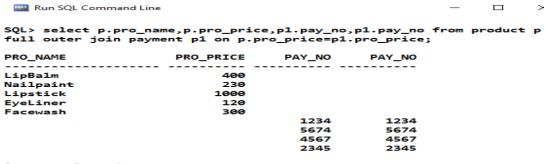
SQL> select p.pro_name,p.pro_price,p1.pay_no,p1.pro_price from product
p,payment p1 where p.pro_price=p1.pro_price;

PRO_NAME	PRO_PRICE	PAY_NO	PRO_PRICE
Lipstick	2000	1234	2000
EyeLiner	2300	2345	2300
Facewash	1500	5674	1500
LipBalm	1200	4567	1200

9)Display maximum,minimum and average salary from payment table where payment type is not null and display prices from descending order of payment type.



10)Display product name ,product price and payment table from payment and product table whose prices are same.



9 rows selected.

- Cursor:
- Write a program to display details of highest 3 price paid products:

```
Run SQL Command Line
SQL> --exp cur2
SQL> Declare
      cursor c2
  2
  3
      IS
     select * from product order by pro_price desc;
  5 p_rec product%rowtype;
  6 Begin
  7 FOR p_rec IN c2
  8 Loop
 9 dbms_output.put_line('id:'||' '||p_rec.pro_id);
10 dbms_output.put_line('name:'||' '||p_rec.pro_name);
 11 dbms_output.put_line('color:'||' '||p_rec.color);
 12 dbms_output.put_line('price:'||' '||p_rec.pro_price);
 13 EXIT WHEN c2%ROWCOUNT >= 3;
 14 End Loop;
 15 End;
16 /
id: 101
name: Lipstick
color: red
price: 500
id: 102
name: LipBalm
color: null
price: 500
id: 104
name: Facewash
color: null
price: 300
PL/SQL procedure successfully completed.
```

Procedure:

Pass product id to procedure. The procedure will return name and price of product whose price is maximum.

```
Run SQL Command Line
SQL> CREATE OR REPLACE PROCEDURE P1
 2 (dno IN product.pro_id %type)
 4 pname product.pro_name%type;
  5 price product.pro_price%type;
  6 Begin
  7 select pro_name,pro_price into pname,price from
  8 product where pro_price=(select max(pro_price) from
 9 product where pro_id=dno);
 10 dbms_output.put_line('*******************************);
 11 dbms_output.put_line('Product name is'||pname);
 12 End;
 13 /
Procedure created.
SQL> --call procedure
SOL> Declare
 pno product.pro_id%type;
  3 Begin
 4 pno:=&pno;
 5 p1(pno);
 6 End;
Enter value for pno: 101
old 4: pno:=&pno;
new 4: pno:=101;
******
Product name isLipstick
PL/SQL procedure successfully completed.
```

Function

Pass product id to a function and check product number and display updated price of product.

```
Run SQL Command Line
                                                           П
SQL> CREATE OR REPLACE FUNCTION price
     (pno IN number)
  3
     Return number
  5
     prc product.pro_price %type;
  6 Begin
  7
    select pro_price into prc from product where pro_id=pno;
  8 if(pno>100) then
  9 update product set pro_price=pro_price*2 where pro_id=pno;
 10 return prc;
 11
     End if;
 12 End price;
 13 /
Function created.
SQL> --call function
SQL> Declare
  2 id product.pro_id %type;
     pric product.pro_price %type;
  4 Begin
  5
     pric:=price(& id);
  6 dbms_output.put_line('*********************************);
     dbms_output.put_line('updated price of product:'||pric);
  8 End;
  9 /
Enter value for id: 101
     5: pric:=price(& id);
      5: pric:=price(101);
*********
updated price of product:1000
PL/SQL procedure successfully completed.
```

• Create trigger on product table .

```
Run SQL Command Line

SQL> create or replace trigger trig1

2 Before Insert on product

3 For Each Row

4 Begin

5 if :new.pname='Lipstick' Then

6 dbms_output.put_line('Name of product should not be Lipstick');

7 End if;

8 End;

9 /

Trigger created.
```