A Practical activity Report submitted for

UCS310

Database Management System

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INTRODUCTION

In this modern era of online shopping, no seller wants to be left behind, moreover due to its simplicity the shift from an offline selling model to an online selling model is witnessing rampant growth.

Therefore, as an engineer, our job is to ease the path of this transition for the seller. Amongst many things that an online site requires the most important is a database system. Hence in this project, we are planning to design a database where small clothing sellers can sell their products online.

The basic function of our database is to digitally store information that can be captured, retrieved, and distributed easily at a later time. This also gives businesses the ability to analyze and track information about the products, sales, and customers that have been input into the database.

One of the biggest benefits of using a database for e-commerce is the addition of structure to vast amounts of shop data. No matter how big or small your online store is, an infrastructure is needed for all the gathered information to make sense and provide useful insights. When the data is structured, it can be accessed more efficiently by the e-commerce application.

Myntra offers a well-curated comprehensive selection of clothes from different brands. It is a one-stop shop for all the fashion and lifestyle needs. Myntra aims at providing a hassle-free and enjoyable shopping experience to shoppers across the country with the widest range of brands and products on its portal. It serves consumers through its retail websites with a focus on selection, price, and convenience. In this project, we are making a conscious effort to bring the power of

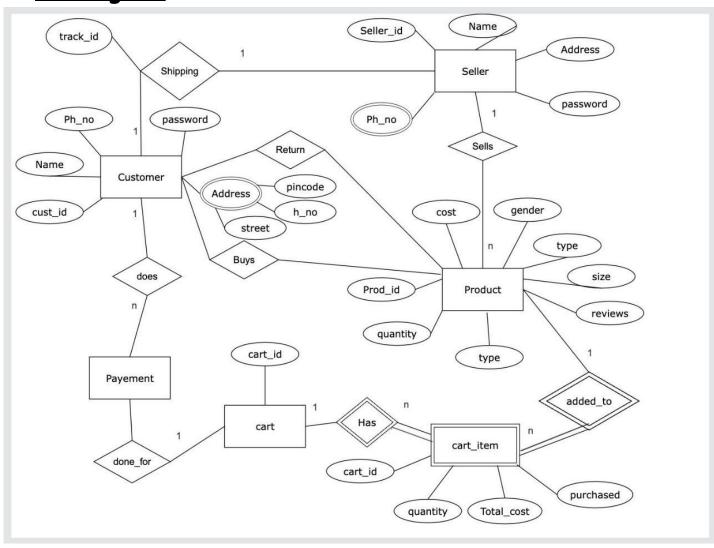
fashion to shoppers with an array of the latest and trendiest products available in the country.

ER DIAGRAM DESCRIPTION

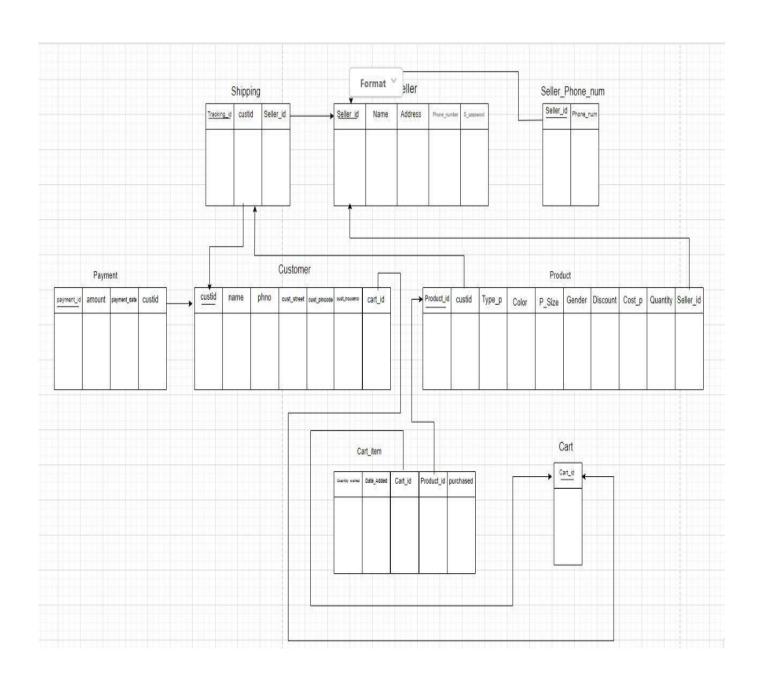
These shopping websites enable many sellers to sell their products to customers at various locations. Each seller has the following attribute: seller_id,s_pass,Name_s and address. Each product has the following attributes: Product_id, Type_p, color,p_size, gender, discount,cost_p and quantity. The customer makes the payment for the cart items added to the cart. Each customer has a cart with its unique cart_id. Cart items have the following attributes: Quantity_wished, purchased,date_added.

After the product is bought the sellers ship product to customers. The customer has the following attributes: name,phone_no.,custid and address. If the customer doesn't like the product he may request a return of the product.

ER diagram



ER to Table



Normalization

1NF: Since our er has ph_no as multivalued attribute so we have made a separate table for ph_no.

2NF: Since there is no non-primary key attribute in the tables that is partially dependent on the primary key, they are normalized according to 2NF.

3NF: Since no non-key attribute is transitively dependent on the primary key in the tables, they are normalized according to 3NF.

BCNF: Since every determinant is the primary key in the tables, they are normalized according to BCNF.

CREATE TABLE COMMANDS:

```
CREATE TABLE
  Seller (
    Seller_id VARCHAR(6),
    s_pass VARCHAR(10),
    Name_s VARCHAR(20),
    Shop_number NUMBER,
    Street VARCHAR(30),
    Pincode NUMBER,
    PRIMARY KEY
    (Seller_id)
  );
  CREATE TABLE
  Seller Phone num (
    Phone_num NUMBER(10),
    Seller_id VARCHAR(6)REFERENCES Seller(Seller_id) ON
DELETE CASCADE,
    PRIMARY KEY (Phone num, Seller id)
  );
```

```
CREATE TABLE

Cart (

Cart_id VARCHAR(7) NOT NULL,

CONSTRAINT pk_cart PRIMARY

KEY(Cart_id)
);
```

```
CREATE TABLE customer(
name VARCHAR(20),
phno NUMBER(10),
custid VARCHAR(12) PRIMARY KEY,
cust_houseno
NUMBER(10),
cust_street
VARCHAR(40),
cust_pincode
NUMBER(10),
cart_id VARCHAR(7) REFERENCES cart(cart_id));
 CREATE TABLE
   SHIPPING (
     Tracking_id VARCHAR (13) PRIMARY KEY,
    custid VARCHAR(12) REFERENCES Customer(custid),
    Seller_id VARCHAR(6)REFERENCES Seller(Seller_id) ON DELETE
 SET NULL
    );
 CREATE TABLE payment(
 payment_id VARCHAR(20) PRIMARY KEY,
 amount NUMBER(10),
 payment_date DATE,
 custid VARCHAR(12) REFERENCES customer(custid));
```

```
CREATE TABLE Product
  (
    Product_id VARCHAR(7) NOT NULL,
    custid VARCHAR(12),
    Type_p VARCHAR(7) NOT NULL,
    Color VARCHAR(15) NOT NULL,
    P_Size VARCHAR(2) NOT NULL,
    Gender CHAR(1) NOT NULL,
    Discount NUMBER(2) NOT NULL,
    Cost_p NUMBER(5) NOT NULL,
    Quantity NUMBER(2) NOT NULL,
    Seller_id VARCHAR(6),
    PRIMARY KEY (Product_id),
    FOREIGN KEY (Seller_id) REFERENCES Seller(Seller_id) ON
DELETE SET NULL.
    FOREIGN KEY (custid) REFERENCES customer(custid)
    ON DELETE SET NULL
  );
```

```
CREATE TABLE Cart_item

(
    Quantity_wished NUMBER(1) NOT NULL,
    Date_Added DATE NOT NULL,
    Cart_id VARCHAR(7) NOT NULL,
    Product_id VARCHAR(7) NOT NULL,
    purchased VARCHAR(5),
    CONSTRAINT fk_cart FOREIGN KEY (Cart_id) REFERENCES

Cart(Cart_id),
    CONSTRAINT fk_product FOREIGN KEY (Product_id)

REFERENCES Product(Product_id),
    CONSTRAINT pk_cart_item Primary key(Cart_id,Product_id)

);
```



INSERTION COMMANDS:

```
insert into Seller values ('1ABQ36', '#123', 'Namit', 1470, 'Rajamata
  Street',110003);
  insert into Seller values ('1CFQ36', '#456', 'Hardik', 2134, 'Ram Laal
  Chowk',110005);
  insert into Seller values ('26KL74', '#ABCD', 'Komal', 73, 'Munshi
  Chowk',400004);
  insert into Seller values ('17KLP7', '#R$23', 'Bhavyal', 677, 'Sahibzada
  Nagar', 140307);
  insert into Seller values ('23EFD5', 'a345d', 'Hardik',523, 'Nawa kot
  Nagar', 132103);
insert into Seller Phone num values (9873654321, '26KL74');
insert into Seller Phone num values (9813732561, '23EFD5');
insert into Seller_Phone_num values(9765310987,'26KL74');
insert into Seller_Phone_num values(9349845100, '1ABQ36');
insert into Seller_Phone_num values(8453877652,'26KL74');
insert into Seller_Phone_num values(8873654321,'1CFQ36');
insert into Seller_Phone_num values(7765654321,'17KLP7');
insert into Cart values('1ADF34');
insert into Cart values('2FDF54');
insert into Cart values('1QRT89');
insert into Cart values('5MPL24');
insert into Cart values('1HDF98');
```

```
insert into customer
values('Mansi',8862473245,'765FTYGUHUHB',1432,'Gandhi Nagar
Street',147001,'2FDF54');
insert into customer
values('Ajay',9834567754,'765DBHBABDBB',234,'Sabzi Mandi
Street',110864,'1ADF34');
insert into customer
values('Jitender',9865467356,'565FTYHYHUHB',75,'Ranjit
Nagar',110086,'1QRT89');
insert into customer
values('Dhruv',7865473240,'765FTYGUHUUI',101,'Virat
Nagar',147345,'5MPL24');
insert into customer
values('Arsh',9855327255,'865FTYGRHIHB',3465,'Model
Town',132103,'1HDF98');
```

SHIPPING insert into values('7YIUGF','765FTYGUHUHB','26KL74'); insert into SHIPPING values('87HHKL','765DBHBABDBB','1ABQ36'); insert values('34VHJF','565FTYHYHUHB','23EFD5'); into SHIPPING insert into SHIPPING values('45GVCW','765FTYGUHUUI','1CFQ36'); into insert SHIPPING values('87JFKJ','865FTYGRHIHB','17KLP7');

```
insert into payment values ('TEJBKD524VVR', 5000, '23-DEC-
 2023', '765FTYGUHUHB');
 insert into payment values ('TYRFWD524VVR', 500, '25-DEC-
 2022', '765DBHBABDBB');
 insert into payment values ('YSJBKD524VVR', 2730, '12-SEP-
 2020','565FTYHYHUHB');
 insert into payment values ('RFGBKD524VVR', 420, '02-AUG-
 2018','765FTYGUHUUI');
 insert into payment values ('TEYPOC524VVR', 1190, '06-JUN-
 2019', '865FTYGRHIHB');
 insert into payment values ('TEJBKD545VVR', 750, '25-OCT-
 2015', '565FTYHYHUHB');
insert into
Productvalues('1267543','765FTYGUHUHB','Sandal','Blue','6','F',20,
420,1,'26KL74');
insert into Product
values('2345676','765DBHBABDBB','Coat','Black','32','M',30,2730,1,
'23EFD5');
insert into Product
values('3647833','565FTYHYHUHB','Shoes','Green','9','M',25,5000,
2,'1ABQ36');
insert into Product
values('7384903','765FTYGUHUUI','Shirt','White','12','F',50,500,1,
'1CFQ36');
insert into Product
values('4567839','865FTYGRHIHB','Jeans','Blue','36','F',0,1190,1,'1
7KLP7');
```

```
insert into Cart_item values(1,'03-JUN-2022','1ADF34','1267543','yes'); insert into Cart_item values(1,'23-AUG-2021','2FDF54','2345676','no'); insert into Cart_item values(1,'06-JAN-2020','1QRT89','3647833','yes'); insert into Cart_item values(1,'27-MAY-2022','5MPL24','7384903','no'); insert into Cart_item values(1,'15-DEC-2021','1HDF98','4567839','yes'); insert into Cart_item values(1,'17-DEC-2021','1HDF98','2345676','no');
```

QUERIES:

1) Alter name_s as Firstname, length of firstname as 15 and add one more field of Last_name

```
Alter table Seller
rename column Name_s to FirstName;
Alter table Seller
modify FirstName varchar(15);
Alter table Seller
add LastName varchar(15);
```

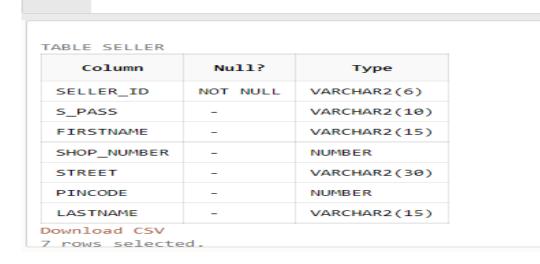
SQL Worksheet

```
1 Alter table Seller
2 rename column Name_s to FirstName;
3 Alter table Seller
4 modify FirstName varchar(15);
5 Alter table Seller
6 add LastName varchar(15);

Table altered.
```

SQL Worksheet

1 2 desc seller;



2) If a seller wants update his phone number

update Seller_Phone_num set Phone_num=9765310988 where seller_id='26KL74' and Phone_num=9765310987;

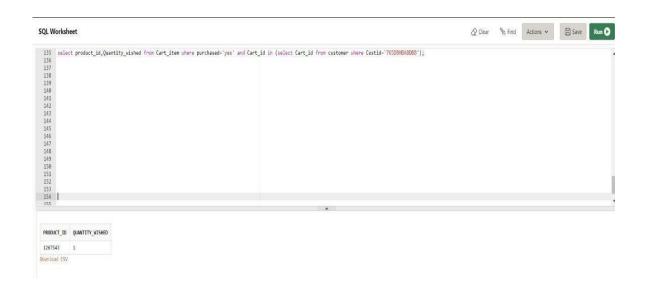


3) If the customer wants to see details of the product present in the cart



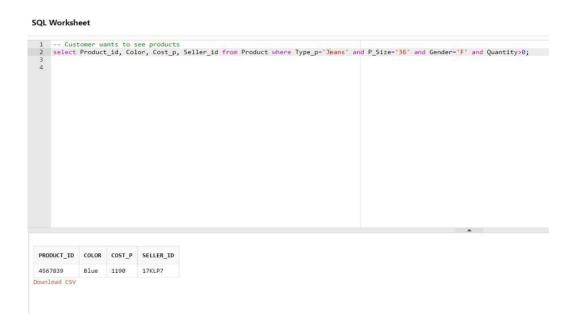
4) If a customer wants to see order history

select product_id,Quantity_wished from Cart_item where purchased='yes' and Cart_id in (select Cart_id from customer where Custid='765DBHBABDBB');



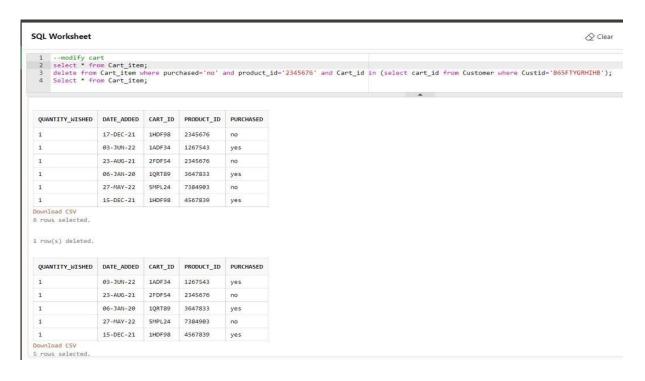
5) Customer wants to see filtered products on the basis of size, gender, type

select product_id, Color, Cost_p, Seller_id from product where Type_p='jeans' and P_size='36' and Gender='F' and Quantity>0);



6) If customer wants to modify the cart

Select * from Cart_item; delete from cart_item where purchased='no'and product_id='2345676' and Cart_id in (select cart_id from Customer where Custid='865FTYGRHIHB' Select * from Cart_item



);

7) If a seller stops selling his product

delete from seller where seller_id = '26KL74';
 update product set quantity = 00 where seller_id is NULL;



SQL Worksheet

```
1 --delete seller details
2 --delete from seller where seller_id = '26KL74';
3 --update product set quantity = 00 where seller_id is NULL;
4 select * from seller;
5 select * from product;
```

SELLER_ID	S_PASS	NAME_S	SHOP_NUMBER	STREET	PINCODE
1ABQ36	#123	Ajitpal	1470	Rajamata Street	110003
1CFQ36	#456	Raman	2134	Ram Laal Chowk	110005
17KLP7	#R\$23	Gopal	677	Sahibzada Nagar	140307
23EFD5	a345d	Sumita	523	Nawa kot Nagar	132103

Download CSV

4 rows selected.

PRODUCT_ID	CUSTID	TYPE_P	COLOR	P_SIZE	GENDER	DISCOUNT	COST_P	QUANTITY	SELLER_II
1267543	765FTYGUHUHB	Sandal	Blue	6	F	20	420	0	
2345676	765DBHBABDBB	Coat	Black	32	М	30	2730	1	23EFD5
3647833	565FTYHYHUHB	Shoes	Green	9	М	25	5000	2	1ABQ36
7384903	765FTYGUHUUI	Shirt	White	12	F	50	500	1	1CFQ36
4567839	865FTYGRHIHB	Jeans	Blue	36	F	0	1190	1	17KLP7

Download CSV 5 rows selected.

8) If the admin wants to see what are the product purchased on the particular date

select product_id from cart_item where (purchased='yes' and date_added='15-DEC-2021');



9) How much product sold on the particular date select count(product_id) count_pid,date_added from Cart_item WHERE purchased='yes' group by(Date_Added);



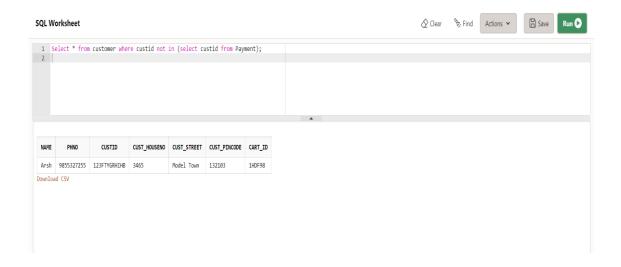
10) If a customer want to know the total price present in the cart

select sum(quantity_wished * cost_p) total_payable from product p join cart_item c on p.product_id=c.product_id where purchased = 'no' and c.product_id in (select product_id from cart_item where cart_id in(select Cart_id from customer where custid='765FTYGUHUUI'));



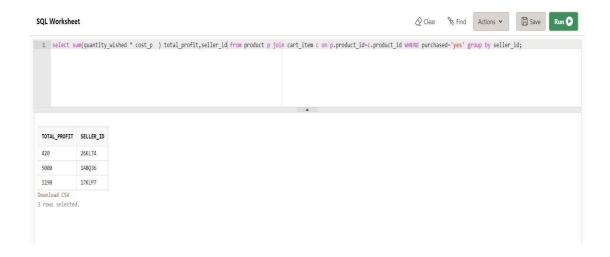
11) Show the details of the customer who has not purchased any thing

Select * from customer where custid not in (select custid from Payment);



12) Find total sales of a seller..

select sum(quantity_wished * cost_p) total_profit,seller_id from product p join cart_item c on p.product_id=c.product_id WHERE purchased='yes' group by seller_id;



13) Revenue generated by each seller on the particular date

select name_s, seller_id, revenue from seller,

(select seller_id as s_id, sum(Cost_p*Quantity) as
revenue from product group by seller_id)

where seller.seller_id = s_id

14) Create a view to display the payment details for a particular date

```
CREATE VIEW payment_details AS

SELECT payment_id, amount

FROM payment

WHERE payment_date = '23-DEC-2022';
```

select * from payment_details

SQL Worksheet



15) Display the total purchase by each customer

select name, custid, cost from customer,

(select custid as c_id, sum(Cost_p*Quantity) as cost from product group by custid)

where customer.custid = c_id



16) Create a view to display the payment details for today

CREATE VIEW payment_details_today AS

SELECT payment_id, amount

FROM payment

WHERE payment_date = sysdate;

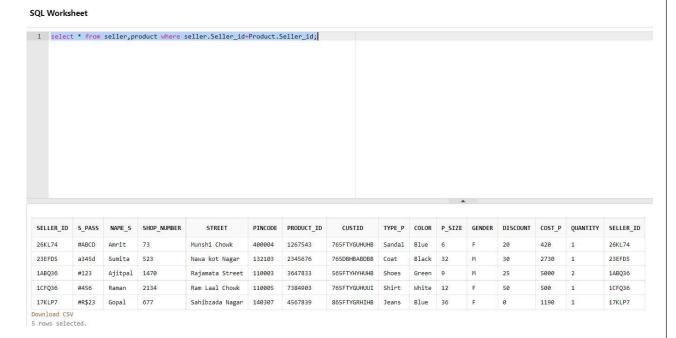
select * from payment_details_today



17) Displaying all contact details for each seller

SELECT Seller.NAME_S,Seller_Phone_num.PHONE_NUM
FROM Seller , Seller_Phone_num
WHERE Seller.SELLER_ID = Seller_Phone_num.SELLER_ID;

18) Display details of seller and products sold by him select * from seller, product where seller_id=Product.Seller_id;



19) Select ids of seller and customer who belong to same place select seller_id,custid from Seller,customer where seller.pincode=customer.cust_pincode;

SQL Worksheet

1	select	seller_	id,custid	from	Seller	,customer	where	seller	.pincode	e=custome	r.cust_	pincode;	

SELLER_ID	CUSTID
23EFD5	865FTYGRHIHB

Download CSV

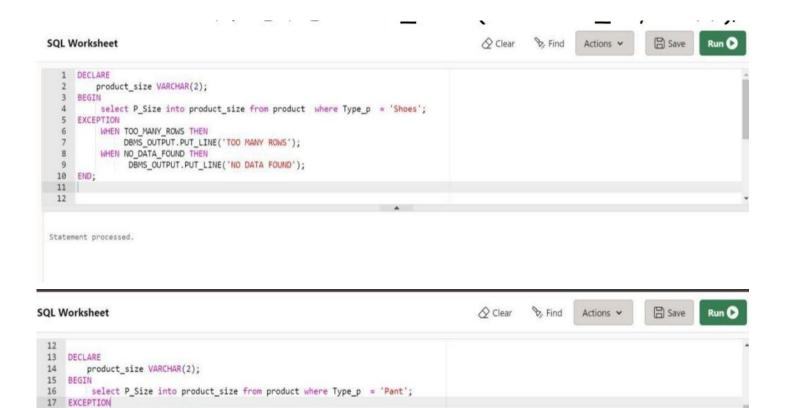
PL/SQL:

1) Displaying a detailed view of each product of a particular product



2) Error Messages displayed when too many rows or no data is selected (Inbuilt Exception Handling)

```
DECLARE
  product_size VARCHAR(2);
BEGIN
  select P_Size from product into product_size where Type_p
= 'Shoes':
EXCEPTION
  WHEN TOO MANY ROWS THEN
     DBMS_OUTPUT_LINE('TOO MANY ROWS');
  WHEN NO_DATA_FOUND THEN
     DBMS_OUTPUT_LINE('NO DATA FOUND');
END;
DECLARE
  product_size VARCHAR(2);
BEGIN
  select P_Size into product_size from product where Type_p
= 'Pant':
EXCEPTION
  WHEN TOO_MANY_ROWS THEN
     DBMS_OUTPUT_LINE('TOO MANY ROWS');
  WHEN NO_DATA_FOUND THEN
     DBMS_OUTPUT_LINE('NO DATA FOUND');
END;
```



Statement processed. NO DATA FOUND

WHEN TOO_MANY_ROWS THEN

DBMS_OUTPUT.PUT_LINE('TOO MANY ROWS');
WHEN NO_DATA_FOUND THEN

DBMS_OUTPUT.PUT_LINE('NO DATA FOUND');

18

19 20

21 22 END; 23 3) Error Messages displayed when a wrong product id with too many characters is inserted (Non- predefined Exception Handling)

```
DECLARE
Incorrect_id EXCEPTION;
PRAGMA EXCEPTION_INIT(Incorrect_id ,-12899);
BEGIN
insert into Product
values('126733599','765FTYGUHULL','Pant','Red','38','M',30,1
20,3,'26KK74');
EXCEPTION
WHEN Incorrect_id THEN
DBMS_OUTPUT.PUT_LINE('Please enter a valid Product ID!');
END
```

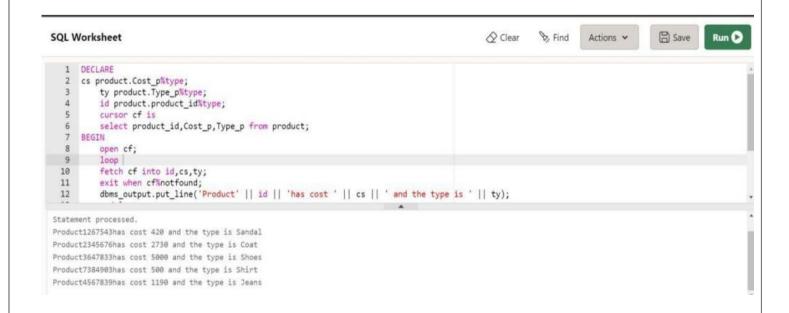


4) Display all the products that are available in the shop

DECLARE

```
cs product.Cost_p%type;
  ty product.Type_p%type;
  id product.product_id%type;
  cursor cf is
  select product_id,Cost_p,Type_p from product;
BEGIN
  open cf;
  loop
```

```
fetch cf into id,cs,ty;
exit when cf%notfound;
dbms_output.put_line('Product' || id || 'has cost ' || cs || '
and the type is ' || ty);
end loop;
close cf;
EXCEPTION
when no_data_found then
dbms_output.put_line('No products available');
END;
```



5) Raise error if product being ordered has a quantity of 0 (User defined Exception Handling)

Declare

product_details Product%rowtype;

```
out_of_stock exception;

Begin

select * into product_details from product where

Product_id = '1267543';

if product_details.Quantity <= 0 THEN

RAISE out_of_stock;

end if;

dbms_output.put_line( product_details.Type_p|| ' is

available quantity is '|| product_details.Quantity);

Exception

When out_of_stock THEN

dbms_output.put_line('Order more items');

END;
```



6) Cursor for loop for finding details of a seller with given seller id

```
declare
  cursor c(s varchar) is
  select * from seller where Seller_id=s;
begin
for rec in c('17KLP7') loop
  dbms_output_put_line( 'password= '||rec.s_pass||' name=
  '||rec.Name_s||' shopnumber= '||rec.Shop_number||' street=
  '||rec.Street||' pincode= '||rec.Pincode);
end loop;
End;
```

```
SQL Worksheet

1    --to display details of seller whose seller id is passed
2    declare
3    cursor (5 varchar) is
4    select * from seller where Seller_id=s;
5    begin
6    for rec in ('17KLP7') loop
7    dms_output.put_line( 'password= '||rec.s_pass||' name= '||rec.Name_s||' shopnumber= '||rec.Shop_number||' street= '||rec.Street||' pincode= '||rec.Pincode);
9    end;
10

Statement processed.
password= ##$23 name= Gopal shopnumber= 677 street= Sahibzada Nagar pincode= 148387
```

7) Apply 10% discount on all items using cursor

```
declare
cursor c is select * from Product;
d number
p number;
```

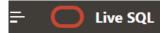
```
begin
    for rec in c loop
    p:=rec.cost_p-0.1*rec.cost_p;
    d:=rec.Discount+10;
    update Product set cost_p=p,Discount=d where
Product_id=rec.Product_id;
    end loop;
    end;
```

= □ Live SQL

SQL Worksheet

```
1 --to reduce price of products by 10%
3 declare
4 cursor c is select * from Product;
5 d number;
6 p number;
7 begin
8 for rec in c loop
9
   p:=rec.cost_p-0.1*rec.cost_p;
   d:=rec.Discount+10;
10
    update Product set cost_p=p,Discount=d where Product_id=rec.Product_id;
11
12
    end loop;
13 end;
14
15
16
17
18
19
```

Statement processed.



SQL Worksheet

```
1 declare
2 cursor c is select * from Product;
3 d number;
4 p number;
5 begin
6 for rec in c loop
7 p:=rec.cost_p-0.1*rec.cost_p;
8 d:=rec.Discount+10;
9 update Product set cost_p=p,Discount=d where Product_id=rec.Product_id;
10 end loop;
11 end;
12
13 select * from Product;
```

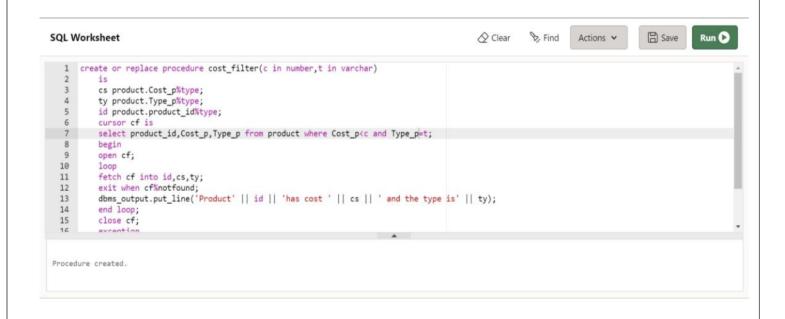
PRODUCT_ID	CUSTID	TYPE_P	COLOR	P_SIZE	GENDER	DISCOUNT	COST_P	QUANTITY	SELLER_ID
1267543	765FTYGUHUHB	Sandal	Blue	6	F	30	378	1	26KL74
2345676	765DBHBABDBB	Coat	Black	32	М	40	2457	1	23EFD5
3647833	565FTYHYHUHB	Shoes	Green	9	М	35	4500	2	1ABQ36
7384903	765FTYGUHUUI	Shirt	White	12	F	60	450	1	1CFQ36
4567839	865FTYGRHIHB	Jeans	Blue	36	F	10	1071	1	17KLP7

Download CSV 5 rows selected.

8) Procedure which returns the type of product with the cost less than the given cost

```
create or replace procedure cost_filter(c in number,t in varchar)
is
  cs product.Cost_p%type;
  ty product.Type_p%type;
  id product.product_id%type;
```

```
cursor cf is
  select product_id,Cost_p,Type_p from product where Cost_p<c</pre>
and Type_p=t;
  begin
  open cf;
  loop
  fetch cf into id, cs, ty;
  exit when cf%notfound:
  dbms_output_line('Product' || id || 'has cost ' || cs || '
and the type is' || ty);
  end loop;
  close cf;
  exception
  when no_data_found then
  dbms_output_line('Sorry no such products exist');
  end:
```



9) Function which returns total number of products which a particular seller sells

```
create or replace function totalProducts(sId in varchar)
return number
is
total number(2):=0;
begin
select count(*) into total
from product
where seller_id=sId;
return total;
end
```

```
SQL Worksheet
                                                                                             Find
                                                                                                                    ☐ Save
                                                                                                                             Run 🗘
                                                                                   Actions ~
  1 create or replace function totalProducts(sId in varchar)
         return number
         total number(2):=0;
  5
         begin
         select count(*) into total
  6
         from product
        where seller_id=sId;
  9
        return total;
 10
 11
Function created.
```

Function execution:

```
declare
c number(2);
begin
c:=totalProducts('1ABQ36');
```

```
dbms_output.put_line('Total products is : '|| c)
end:
```

```
SQL Worksheet

declare
c number(2);
begin
dems_output.put_line('Total products is : '|| c);
end;

Statement processed.
Total products is : 1
```

10) Procedure which returns the total quantity of product with the given ID (Procedure with exception handling)

```
create or replace procedure prod_details(p_id in varchar)
is
quan number(2);
begin
select quantity into quan from product where product_id=p_id;
exception
when no_data_found then
dbms_output_put_line('Sorry no such product exist !!');
end;
```



11)Procedure to delete seller info based on sellerid create or replace procedure deleteseller(sellerid varchar)as begin delete from Seller where Seller_id=sellerid; end:

declare
s varchar(6);
begin
s:='17KLP7';
deleteseller(s);
end;

SQL Worksheet

```
create or replace procedure deleteseller(sellerid varchar)as
begin
delete from Seller where Seller_id=sellerid;
end;
/*declare
s varchar(6);
begin
s:='17KLP7';
deleteseller(s);
end;*/
```

Procedure created.

SQL Worksheet

```
create or replace procedure deleteseller(sellerid varchar)as
begin
delete from Seller where Seller_id=sellerid;
end;
declare
s varchar(6);
begin
s:='17KLP7';
deleteseller(s);
end;
```

Statement processed.

12) Triggers:

Trigger that will execute before inserting new customer to database and inserting a new cartId to the cart_items table (Function to count number of cart items)

create or replace function numCartId(cd in varchar)
return number

```
is
total number(2):=0;
begin
select count(*) into total
from cart_item
where cart_id=cd;
return total;
end;
```



```
Create or replace trigger before_customer
before insert
on
customer
for each row
declare
c varchar(10);
n number(2);
begin
c:= :new.cart_id;
n:=numCartId(c);
```

```
if n>0 then
dbms_output.put_line('Sorry');
end if;
insert into cart values(c);
end;
```

```
SQL Worksheet
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                                                                                                                     ☐ Save
 1 Create or replace trigger before_customer
         before insert
        customer
        for each row
        c varchar(10);
        n number(2);
        begin
       c:= :new.cart_id;
 10
        n:=numCartId(c);
 11
 12
        if n>0 then
 13
        dbms_output.put_line('Sorry');
 14
        end if:
 15
        insert into cart values(c);
Trigger created.
```

13) Trigger to update the total amount of user everytime he adds something to payment table

```
create or replace function total_cost(cId in varchar)
return number
is

total number(2):=0;
begin
select sum(cost_p) into total from product,cart_item where
product.product_id=cart_item.product_id and cart_id=cId;
return total;
end;
```



create or replace trigger before_pay_up before insert
on payment
for each row declare
total number(3); begin
total :=total_cost(:new.custid); insert
into payment
values(:new.payment_id,total,:new.payment_date,:new.custid); end;

```
SQL Worksheet

↑ create or replace trigger before_pay_up

before insert

on

4 payment

5 for each row

6 declare

7 total number(3);

8 begin

9 total :=total_cost(:new.custid);

10 insert into payment values(:new.payment_id,total,:new.payment_date,:new.custid);

11 end;

12
```