

E -COMMERCE MANAGEMENT SYSTEM

SUBMITTED BY-

1.VEDAANT SOODEN(102003397)

2.HARSHUL DUGGAL(102083009)

3.SUKHVIR SINGH(102003400)

Contents

- Mini world and Project Description
- Basic structure
 - Functional requirements
 - Entity Relation (ER) diagram and constraints
 - Relational database schema
- Implementation
 - Creating tables
 - Inserting data
- Queries
 - Basic queries
 - PL/SQL function
 - Trigger function

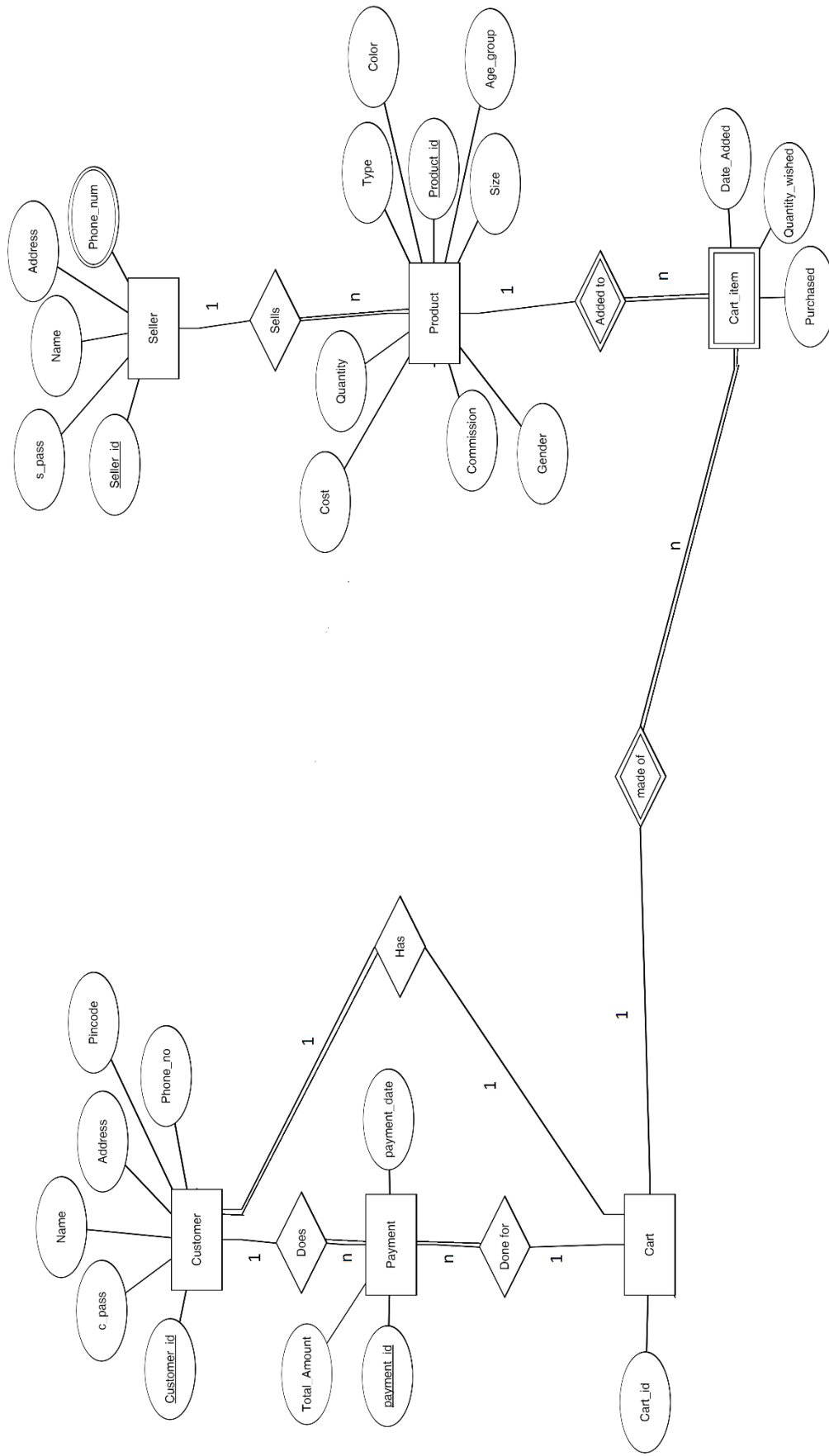
Mini world and Description

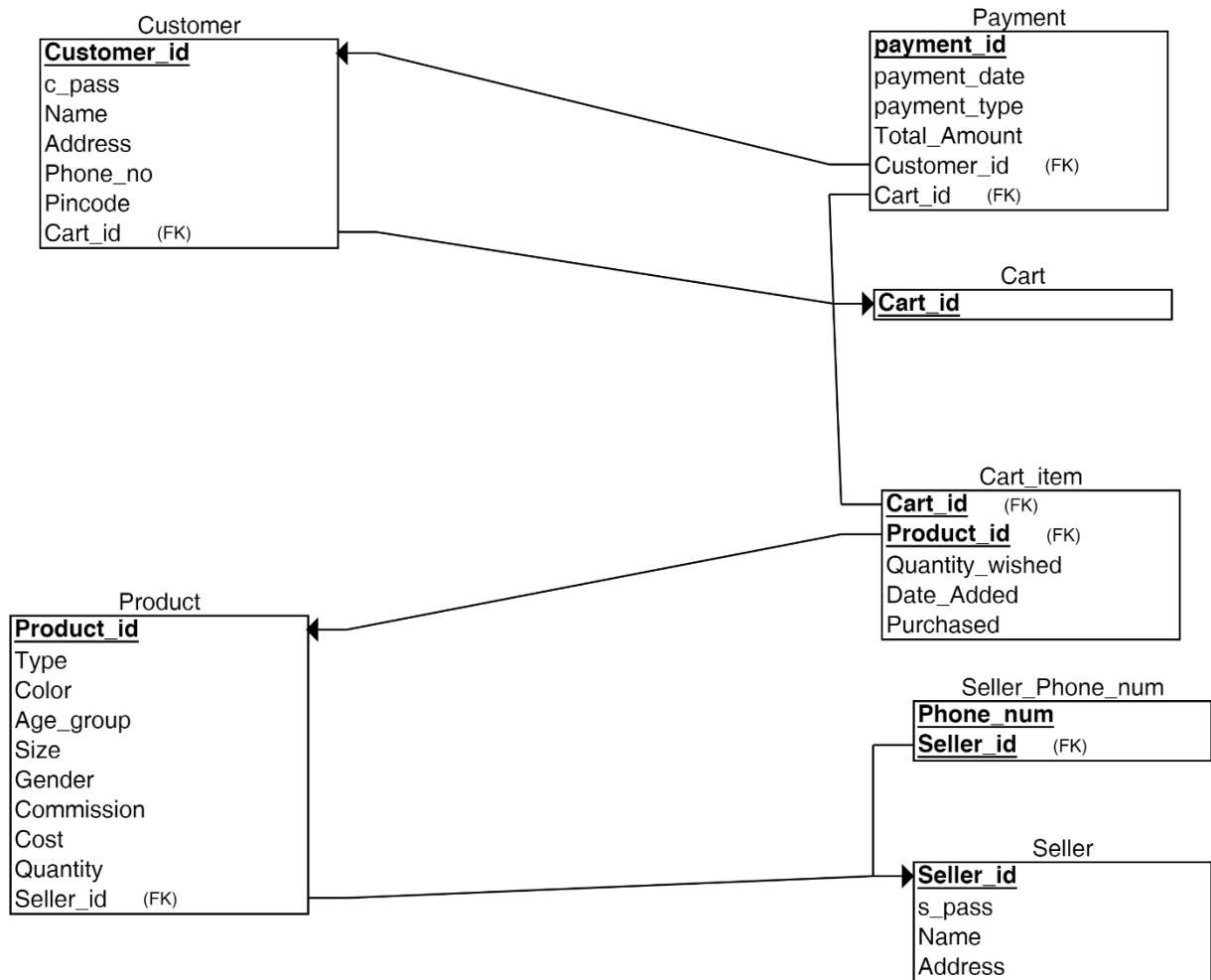
In this modern era of online shopping no seller wants to be left behind, moreover due to its simplicity the shift from offline selling model to an online selling model is witnessing a rampant growth.

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 product online.

Functional requirement

- A new user can register on the website.
- A customer can see details of the product present in the cart
- A customer can view his order history.
- Admin can start a sale with certain discount on every product.
- Customer can filter the product based on the product details.
- A customer can add or delete a product from the cart.
- A seller can unregister/ stop selling his product.
- A seller/ customer can update his details.
- Admin can view the products purchased on particular date.
- Admin can view number of products sold on a particular date.
- A customer can view the total price of product present in the cart unpurchased.
- Admin can view details of customer who have not purchased anything.
- Admin can view total profit earned from the website.





Creating Tables

```
CREATE TABLE Cart
```

```
(
```

```
    Cart_id VARCHAR(7) NOT NULL,
```

```
    PRIMARY KEY(Cart_id)
```

```
);
```

```
CREATE TABLE Customer
```

```
(
```

```
    Customer_id VARCHAR(6) NOT NULL,
```

```
    c_pass VARCHAR(10) NOT NULL,
```

```
    Name VARCHAR(20) NOT NULL,
```

```
    Address VARCHAR(20) NOT NULL,
```

```
    Pincode NUMBER(6) NOT NULL,
```

```
    Phone_number_s number(10) NOT NULL,
```

```
    PRIMARY KEY (Customer_id),
```

```
    Cart_id VARCHAR(7) NOT NULL,
```

```
    FOREIGN KEY(Cart_id) REFERENCES cart(Cart_id)
```

```
);
```

```
CREATE TABLE Seller
```

```
(
```

```
    Seller_id VARCHAR(6) NOT NULL,
```

```
    s_pass VARCHAR(10) NOT NULL,
```

```
    Name VARCHAR(20) NOT NULL,
```

```
    Address VARCHAR(10) NOT NULL,
```

```
    PRIMARY KEY (Seller_id)
```

```
);
```

```
CREATE TABLE Seller_Phone_num
```

```
(  
    Phone_num NUMBER(10) NOT NULL,  
    Seller_id VARCHAR(6) NOT NULL,  
    PRIMARY KEY (Phone_num, Seller_id),  
    FOREIGN KEY (Seller_id) REFERENCES Seller(Seller_id)  
    ON DELETE CASCADE  
);
```

CREATE TABLE Payment

```
(  
    payment_id VARCHAR(7) NOT NULL,  
    payment_date DATE NOT NULL,  
    Payment_type VARCHAR(10) NOT NULL,  
    Customer_id VARCHAR(6) NOT NULL,  
    Cart_id VARCHAR(7) NOT NULL,  
    PRIMARY KEY (payment_id),  
    FOREIGN KEY (Customer_id) REFERENCES Customer(Customer_id),  
    FOREIGN KEY (Cart_id) REFERENCES Cart(Cart_id),  
    total_amount numeric(6)  
);
```

CREATE TABLE Product

```
(  
    Product_id VARCHAR(7) NOT NULL,  
    Type VARCHAR(7) NOT NULL,  
    Color VARCHAR(15) NOT NULL,  
    P_Size VARCHAR(2) NOT NULL,  
    Gender CHAR(1) NOT NULL,  
    Commission NUMBER(2) NOT NULL,  
    Cost 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  
  
);
```

```
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,  
  
FOREIGN KEY (Cart_id) REFERENCES Cart(Cart_id),  
  
FOREIGN KEY (Product_id) REFERENCES Product(Product_id),  
  
Primary key(Cart_id,Product_id)  
  
);
```

```
alter table Cart_item add purchased varchar(3) default 'NO';
```


Inserting Values

```
insert into Cart values('crt1011');
insert into Cart values('crt1012');
insert into Cart values('crt1013');
insert into Cart values('crt1014');
insert into Cart values('crt1015');
insert into Cart values('crt1016');
insert into Cart values('crt1017');
insert into Cart values('crt1018');
insert into Cart values('crt1019');
insert into Cart values('crt1010');

insert into Customer values('cid100','ABCM1235','rajat','G-453','632014',9893135876, 'crt1011');
insert into Customer values('cid101','ABCM1234','harshul','G-451','632013',9893135877, 'crt1012');
insert into Customer values('cid102','ABCM1235','duggal','G-452','632011',9893135870, 'crt1013');
insert into Customer values('cid103','ABCM1236','vedant','G-454','632012',9893135871, 'crt1010');
insert into Customer values('cid104','ABCM1231','sooden','G-455','632015',9893135872, 'crt1014');
insert into Customer values('cid105','ABCM1232','sukhvir','G-456','632016',9893135873, 'crt1015');
insert into Customer values('cid106','ABCM1233','singh','G-457','632017',9893135846, 'crt1016');
insert into Customer values('cid107','ABCM1237','preetika','G-458','632018',9893155876, 'crt1017');
insert into Customer values('cid108','ABCM1238','noor','G-459','632019',9893135896, 'crt1018');
insert into Customer values('cid109','ABCM1239','priya','G-450','632020',9893135376, 'crt1019');
```

```
insert into Seller values('sid100','12345','aman','delhi cmc');
insert into Seller values('sid101','12341','sanchi','delhi cmc');
insert into Seller values('sid102','12342','archita','delhi cmc');
insert into Seller values('sid103','12343','parush','delhi cmc');
insert into Seller values('sid104','12344','rishav','delhi cmc');
insert into Seller values('sid105','12346','sartaj','delhi cmc');
insert into Seller values('sid106','12347','yuvraj','delhi cmc');
insert into Seller values('sid107','12348','samriti','delhi cmc');
insert into Seller values('sid108','12349','arsh','delhi cmc');
insert into Seller values('sid109','12340','viraj','delhi cmc');
```

```
insert into Product values('pid1001','jeans','blue','32','M',10,10005,20,'sid100');
insert into Product values('pid1002','tshirt','black','31','F',11,10625,10,'sid101');
insert into Product values('pid1003','shirt','green','33','F',15,9500,15,'sid102');
insert into Product values('pid1004','jacket','yellow','30','M',16,6000,16,'sid103');
insert into Product values('pid1005','pajamas','red','28','F',20,1455,30,'sid104');
insert into Product values('pid1006','tracksuit','brown','29','M',30,6987,14,'sid105');
insert into Product values('pid1007','trousers','darkblue','26','F',40,7899,13,'sid106');
insert into Product values('pid1008','lowers','skyblue','27','F',35,4569,22,'sid107');
insert into Product values('pid1009','boxers','orange','32','M',25,2569,27,'sid108');
insert into Product values('pid1000','hoodies','maroon','32','F',27,1460,17,'sid109');
```

```
insert into Seller_Phone_num values('9943336206','sid100');
```

```
insert into Seller_Phone_num values('9943334586','sid101');
insert into Seller_Phone_num values('9959896206','sid102');
insert into Seller_Phone_num values('9789436206','sid103');
insert into Seller_Phone_num values('9936544256','sid104');
insert into Seller_Phone_num values('9685745898','sid105');
insert into Seller_Phone_num values('9945268776','sid106');
insert into Seller_Phone_num values('9548566598','sid107');
insert into Seller_Phone_num values('8687946468','sid108');
insert into Seller_Phone_num values('9978794485','sid109');
```

```
insert into Cart_item values(4,to_date('15-OCT-2022','dd-mon-yyyy'),'crt1011','pid1001','Y');
insert into Cart_item values(0,to_date('16-JAN-2022','dd-mon-yyyy'),'crt1012','pid1002','Y');
insert into Cart_item values(1,to_date('17-FEB-2022','dd-mon-yyyy'),'crt1013','pid1003','Y');
insert into Cart_item values(2,to_date('18-MARCH-2022','dd-mon-yyyy'),'crt1014','pid1004','Y');
insert into Cart_item values(3,to_date('19-APRIL-2022','dd-mon-yyyy'),'crt1015','pid1005','Y');
insert into Cart_item values(5,to_date('12-MAY-2022','dd-mon-yyyy'),'crt1016','pid1006','Y');
insert into Cart_item values(6,to_date('11-JUNE-2022','dd-mon-yyyy'),'crt1017','pid1007','Y');
insert into Cart_item values(7,to_date('14-JULY-2022','dd-mon-yyyy'),'crt1018','pid1008','Y');
insert into Cart_item values(8,to_date('10-AUGUST-2022','dd-mon-yyyy'),'crt1019','pid1009','Y');
insert into Cart_item values(9,to_date('13-SEPT-2022','dd-mon-yyyy'),'crt1010','pid1010','Y');
```

```
insert into Payment values('pmt1001',to_date('15-OCT-2022','dd-mon-  
yyyy'),'online','cid100','crt1011',NULL);
```

```
insert into Payment values('pmt1002',to_date('16-JAN-2022','dd-mon-  
yyyy'),'online','cid101','crt1012',NULL);
```

```
insert into Payment values('pmt1003',to_date('17-FEB-2022','dd-mon-  
yyyy'),'online','cid102','crt1013',NULL);
```

```
insert into Payment values('pmt1004',to_date('18-MARCH-2022','dd-mon-  
yyyy'),'online','cid103','crt1014',NULL);
```

```
insert into Payment values('pmt1005',to_date('19-APRIL-2022','dd-mon-  
yyyy'),'online','cid104','crt1015',NULL);
```

```
insert into Payment values('pmt1006',to_date('12-MAY-2022','dd-mon-  
yyyy'),'online','cid105','crt1016',NULL);
```

```
insert into Payment values('pmt1007',to_date('11-JUNE-2022','dd-mon-  
yyyy'),'online','cid106','crt1017',NULL);
```

```
insert into Payment values('pmt1008',to_date('14-JULY-2022','dd-mon-  
yyyy'),'online','cid107','crt1018',NULL);
```

```
insert into Payment values('pmt1009',to_date('10-AUGUST-2022','dd-mon-  
yyyy'),'online','cid108','crt1019',NULL);
```

```
insert into Payment values('pmt1000',to_date('13-SEPT-2022','dd-mon-  
yyyy'),'online','cid109','crt1010',NULL);
```

Basic Queries

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

```
select * from product where product_id in(  
    select product_id from Cart_item where (Cart_id in (  
        select Cart_id from Customer where Customer_id='cid105'  
    ))  
and purchased='NO');
```

If a customer wants to see order history

```
select product_id,Quantity_wished from Cart_item where (purchased='Y' and Cart_id in (select  
Cart_id from customer where Customer_id='cid101'));
```

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

```
select product_id, color, cost, seller_id from product where (type='jeans' and p_size='32' and  
gender='F' and quantity>0)
```

If customer wants to modify the cart

```
delete from cart_item where (product_id='pid1001' and Cart_id in (select cart_id from Customer  
where Customer_id='cid100'));
```

If a seller stops selling his product

```
delete from seller where seller_id = 'sid100';  
  
update product set quantity = 00 where seller_id is NULL;
```

If admin want to see what are the product purchased on the particular date

```
select product_id from cart_item where (purchased='Y' and date_added='12-dec-2018');
```

How much product sold on the particular date

```
select count(product_id) count_pid,date_added from Cart_item where purchased='Y' group  
by(date_added);
```

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

```
select sum(quantity_wished * cost) total_payable from product p join cart_item c on  
p.product_id=c.product_id where c.product_id in (select product_id from cart_item where cart_id  
in(select Cart_id from customer where customer_id='cid101') and purchased='Y');
```

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

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

Find total profit of the website from sales.

```
select sum(quantity_wished * cost * commission/100) total_profit from product p join cart_item c on  
p.product_id=c.product_id where purchased='Y';
```

PL/SQL function

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%type;
ty product.type%type;
id product.product_id%type;
cursor cf is
select product_id,cost,type from product where cost<c and type=t;
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('Sorry no such products exist');
end;
```

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

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

Function execution:

```
declare
c number(2);
begin
c:=totalProducts('sid102');
dbms_output.put_line('Total products is : ' || c);
end;
```


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;
/
```

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;

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

```
create or replace function total_cost(cld in varchar)
return number
is
total number(2) :=0;
begin
select sum(cost) into total from product, cart_item where
product.product_id=cart_item.product_id and cart_id=cld;
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.cart_id);
insert into payment
values(:new.payment_id,:new.payment_date,:new.payment_type,:new.customer_id,:new.cart_id,total);
end;
```

SQL Worksheet

ClearFindActionsSaveRun

```
15 FOREIGN KEY (s_number) REFERENCES seller(s_number) NOT NULL,
16 PRIMARY KEY (Customer_id),
17 Cart_id VARCHAR(20) NOT NULL,
18 FOREIGN KEY (Cart_id) REFERENCES cart(Cart_id)
19 )
20 ;
21
22 CREATE TABLE Seller
23 (
24     Seller_id VARCHAR(20) NOT NULL,
25     s_pass VARCHAR(20) NOT NULL,
26     Name VARCHAR(30) NOT NULL,
27     Address VARCHAR(40) NOT NULL,
28     PRIMARY KEY (Seller_id)
29 )
30 ;
31
32 CREATE TABLE Seller_Phone_num
33 (
34     Phone_num NUMBER(20) NOT NULL,
35     Seller_id VARCHAR(20) NOT NULL,
36     PRIMARY KEY (Phone_num, Seller_id),
37     FOREIGN KEY (Seller_id) REFERENCES Seller(Seller_id)
38     ON DELETE CASCADE
39 )
40 ;
41
42 --
```

Table created.

Table created.

SQL Worksheet

ClearFindActionsSaveRun

```
1 CREATE TABLE Cart
2 (
3     Cart_id VARCHAR(20) NOT NULL,
4     PRIMARY KEY (Cart_id)
5 )
6 ;
7
8 CREATE TABLE Customer
9 (
10     Customer_id VARCHAR(20) NOT NULL,
11     c_pass VARCHAR(20) NOT NULL,
12     Name VARCHAR(30) NOT NULL,
13     Address VARCHAR(40) NOT NULL,
14     Pincode NUMBER(20) NOT NULL,
15     Phone_number_s number(20) NOT NULL,
16     PRIMARY KEY (Customer_id),
17     Cart_id VARCHAR(20) NOT NULL,
18     FOREIGN KEY (Cart_id) REFERENCES cart(Cart_id)
19 )
20 ;
21
```

Table created.

Table created.

SQL Worksheet

ClearFindActionsSaveRun

```
42 CREATE TABLE Payment
43 (
44     payment_id VARCHAR(22) NOT NULL,
45     payment_date DATE NOT NULL,
46     Payment_type VARCHAR(20) NOT NULL,
47     Customer_id VARCHAR(20) NOT NULL,
48     Cart_id VARCHAR(22) NOT NULL,
49     PRIMARY KEY (payment_id),
50     FOREIGN KEY (Customer_id) REFERENCES Customer(Customer_id),
51     FOREIGN KEY (Cart_id) REFERENCES Cart(Cart_id),
52     total_amount numeric(20)
53 )
54 ;
55
56 CREATE TABLE Product
57 (
58     Product_id VARCHAR(22) NOT NULL,
59     Type VARCHAR(22) NOT NULL,
60     Color VARCHAR(25) NOT NULL,
61     P_Size VARCHAR(22) NOT NULL,
62     Gender CHAR(12) NOT NULL,
63     Commission NUMBER(20) NOT NULL,
64     Cost NUMBER(15) NOT NULL,
65     Quantity NUMBER(20) NOT NULL,
66     Seller_id VARCHAR(20),
67     PRIMARY KEY (Product_id),
68 --
```

Table created.

Table created.

SQL Worksheet

ClearFindActionsSaveRun

```
86 ;
87
88     insert into Cart values('crt1011')
89 ;
90
91 insert into Cart values('crt1012')
92 ;
93
94     insert into Cart values('crt1013')
95 ;
96
97     insert into Cart values('crt1014')
98 ;
99
100     insert into Cart values('crt1015')
101 ;
102
103     insert into Cart values('crt1016')
104 ;
105
106     insert into Cart values('crt1017')
107 ;
108
109     insert into Cart values('crt1018')
110 ;
111
112     insert into Cart values('crt1019')
113 ;
```

```
1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.
```

SQL Worksheet

ClearFindActionsSaveRun

```
113 ;
114
115     insert into Cart values('crt1018')
116 ;
117
118     insert into Customer values('cid100','ABCM1235','rajet','G-453','632014',9893135876, 'crt1011')
119 ;
120
121 insert into Customer values('cid101','ABCM1234','harshul','G-451','632013',9893135877, 'crt1012')
122 ;
123
124 insert into Customer values('cid102','ABCM1235','duggal','G-452','632011',9893135870, 'crt1013')
125 ;
126
127 insert into Customer values('cid103','ABCM1236','vedant','G-454','632012',9893135871, 'crt1010')
128 ;
129
130 insert into Customer values('cid104','ABCM1231','sooden','G-455','632015',9893135872, 'crt1014')
131 ;
132
133 insert into Customer values('cid105','ABCM1232','sukhviri','G-456','632016',9893135873, 'crt1015')
134 ;
135
136 insert into Customer values('cid106','ABCM1233','singh','G-457','632017',9893135846, 'crt1016')
137 ;
138
139 insert into Customer values('cid107','ABCM1237','preetika','G-458','632018',9893135876, 'crt1017')
140 ;
```

```
1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.
```

© 2022 Oracle - Live SQL 22.1.3, running Oracle Database 19c Enterprise Edition - 19.8.0.0.0 - Database Documentation - Ask Tom - Dev Gym

SQL Worksheet

ClearFindActionsSaveRun

```
143 insert into Customer values('CID109','Rohit229','Priya','G-450','652020','9895135578','CP1019')
144 ;
145
146 insert into Seller values('sid100','12345','aman','delhi cnc')
147 ;
148
149 insert into Seller values('sid101','12341','sanchi','chandigarh cnc')
150 ;
151
152 insert into Seller values('sid102','12342','archita','harayana cnc')
153 ;
154
155 insert into Seller values('sid103','12343','parush','ludhiana cnc')
156 ;
157
158 insert into Seller values('sid104','12344','rishav','punjab cnc')
159 ;
160
161 insert into Seller values('sid105','12346','sartaj','mohali cnc')
162 ;
163
164 insert into Seller values('sid106','12347','yuvraj','mumbai cnc')
165 ;
166
167 insert into Seller values('sid107','12348','samriti','himachal cnc')
168 ;
169
170
171
172
```

1 row(s) Inserted.

1 row(s) Inserted.

1 row(s) Inserted.

1 row(s) Inserted.

© 2022 Oracle - Live SQL 22.1.3, running Oracle Database 19c Enterprise Edition - 19.0.0.0 - Database Documentation - Ask Tom - Dev Gym

SQL Worksheet

ClearFindActionsSaveRun

```
172 insert into Seller values('sid108','12349','arsh','goa cnc')
173 ;
174
175 insert into Seller values('sid109','12340','viraj','manali cnc')
176 ;
177
178 insert into Product values('pid1001','jeans','blue','32','M',10,10005,20,'sid100')
179 ;
180
181 insert into Product values('pid1002','tshirt','black','31','F',11,10625,10,'sid101')
182 ;
183
184 insert into Product values('pid1003','shirt','green','33','F',15,9500,15,'sid102')
185 ;
186
187 insert into Product values('pid1004','jacket','yellow','30','M',16,6000,16,'sid103')
188 ;
189
190 insert into Product values('pid1005','pajamas','red','28','F',20,1455,30,'sid104')
191 ;
192
193 insert into Product values('pid1006','tracksuit','brown','29','M',30,6987,14,'sid105')
194 ;
195
196 insert into Product values('pid1007','trousers','darkblue','26','F',40,7899,13,'sid106')
197 ;
198
199
```

1 row(s) Inserted.

1 row(s) Inserted.

1 row(s) Inserted.

1 row(s) Inserted.

SQL Worksheet

ClearFindActionsSaveRun

```
207
208 insert into Seller_Phone_num values('994336206','sid100')
209 ;
210
211 insert into Seller_Phone_num values('994334586','sid101')
212 ;
213
214 insert into Seller_Phone_num values('9959896206','sid102')
215 ;
216
217 insert into Seller_Phone_num values('9789436206','sid103')
218 ;
219
220 insert into Seller_Phone_num values('9936544256','sid104')
221 ;
222
223 insert into Seller_Phone_num values('9685745898','sid105')
224 ;
225
226 insert into Seller_Phone_num values('9945268776','sid106')
227 ;
228
229 insert into Seller_Phone_num values('9548566598','sid107')
230 ;
231
232 insert into Seller_Phone_num values('8687946468','sid108')
233 ;
234
```

1 row(s) Inserted.

1 row(s) Inserted.

1 row(s) Inserted.

1 row(s) Inserted.

© 2022 Oracle - Live SQL 22.1.3, running Oracle Database 19c Enterprise Edition - 19.0.0.0 - Database Documentation - Ask Tom - Dev Gym

SQL Worksheet

ClearFindActionsSaveRun

```
234
235      insert into Seller_Phone_num values('9978794485','sid109')
236  ;
237
238      insert into Cart_item values(4,to_date('15-OCT-2022','dd-mon-yyyy'),'crt1011','pid1001','Y')
239  ;
240
241      insert into Cart_item values(8,to_date('16-JAN-2022','dd-mon-yyyy'),'crt1012','pid1002','Y')
242  ;
243
244      insert into Cart_item values(1,to_date('17-FEB-2022','dd-mon-yyyy'),'crt1013','pid1003','Y')
245  ;
246
247      insert into Cart_item values(2,to_date('18-MARCH-2022','dd-mon-yyyy'),'crt1014','pid1004','Y')
248  ;
249
250      insert into Cart_item values(3,to_date('19-APRIL-2022','dd-mon-yyyy'),'crt1015','pid1005','Y')
251  ;
252
253      insert into Cart_item values(5,to_date('12-MAY-2022','dd-mon-yyyy'),'crt1016','pid1006','Y')
254  ;
255
256      insert into Cart_item values(6,to_date('11-JUNE-2022','dd-mon-yyyy'),'crt1017','pid1007','Y')
257  ;
258
259      insert into Cart_item values(7,to_date('14-JULY-2022','dd-mon-yyyy'),'crt1018','pid1008','Y')
260  ;
261  ;
```

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

SQL Worksheet

ClearFindActionsSaveRun

```
272
273      insert into Payment values('pmt1001',to_date('15-OCT-2022','dd-mon-yyyy'),'online','cid108','crt1011',NULL)
274  ;
275
276      insert into Payment values('pmt1002',to_date('16-JAN-2022','dd-mon-yyyy'),'online','cid101','crt1012',NULL)
277  ;
278
279      insert into Payment values('pmt1003',to_date('17-FEB-2022','dd-mon-yyyy'),'online','cid102','crt1013',NULL)
280  ;
281
282      insert into Payment values('pmt1004',to_date('18-MARCH-2022','dd-mon-yyyy'),'online','cid103','crt1014',NULL)
283  ;
284
285      insert into Payment values('pmt1005',to_date('19-APRIL-2022','dd-mon-yyyy'),'online','cid104','crt1015',NULL)
286  ;
287
288      insert into Payment values('pmt1006',to_date('12-MAY-2022','dd-mon-yyyy'),'online','cid105','crt1016',NULL)
289  ;
290
291      insert into Payment values('pmt1007',to_date('11-JUNE-2022','dd-mon-yyyy'),'online','cid106','crt1017',NULL)
292  ;
293
294      insert into Payment values('pmt1008',to_date('14-JULY-2022','dd-mon-yyyy'),'online','cid107','crt1018',NULL)
295  ;
296
297      insert into Payment values('pmt1009',to_date('10-AUGUST-2022','dd-mon-yyyy'),'online','cid108','crt1019',NULL)
298  ;
299  ;
```

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

© 2022 Oracle - Live SQL 22.1.3, running Oracle Database 19c Enterprise Edition - 19.8.0.0.0 - Database Documentation - Ask Tom - Dev Gym

SQL Worksheet

ClearFindActionsSaveRun

```
298
299      insert into Payment values('pmt1007',to_date('11-JUNE-2022','dd-mon-yyyy'),'online','cid106','crt1017',NULL)
300  ;
301
302      insert into Payment values('pmt1008',to_date('14-JULY-2022','dd-mon-yyyy'),'online','cid107','crt1018',NULL)
303  ;
304
305      insert into Payment values('pmt1009',to_date('10-AUGUST-2022','dd-mon-yyyy'),'online','cid108','crt1019',NULL)
306  ;
307
308      insert into Payment values('pmt1000',to_date('13-SEPT-2022','dd-mon-yyyy'),'online','cid109','crt1010',NULL)
309  ;
310  ;
311
312      select * from product where product_id in(
313      select product_id from Cart_item where (Cart_id in (
314      select Cart_id from Customer where Customer_id='cid107'
315      ))
316      and purchased='NO')
317  ;
```

no data found

© 2022 Oracle - Live SQL 22.1.3, running Oracle Database 19c Enterprise Edition - 19.8.0.0.0 - Database Documentation - Ask Tom - Dev Gym
Built with ♥ using Oracle APEX - Privacy - Terms of Use

SQL Worksheet

Clear Find Actions Save Run

```

298 ;
299
300 insert into Payment values('pet1000',to_date('13-SEPT-2022','dd-mon-yyyy'),'online','cid109','crt1010',NULL)
301 ;
302
303
304
305
306 select * from product where product_id in(
307     select product_id from Cart_item where ((Cart_id in (
308         select Cart_id from Customer where Customer_id='cid107'
309     ))
310     and purchased='NO')
311 ;
312
313 select * from product where product_id in(
314     select product_id from Cart_item where ((Cart_id in (
315         select Cart_id from Customer where Customer_id='cid109'
316     ))
317     and purchased='NO')
318 ;
319
320 select * from product where product_id in(
321     select product_id from Cart_item where ((Cart_id in (
322         select Cart_id from Customer where Customer_id='cid105'
323     ))
324     and purchased='NO')
325 ;

```

no data found

© 2022 Oracle - Live SQL 22.1.3, running Oracle Database 19c Enterprise Edition - 19.8.0.0.0 - Database Documentation - Ask Tom - Dev Gym
Built with ❤️ using Oracle APEX - Privacy - Terms of Use

SQL Worksheet

Clear Find Actions Save Run

```

307 select product_id from Cart_item where ((Cart_id in (
308     select Cart_id from Customer where Customer_id='cid107'
309 ))
310 and purchased='NO')
311 ;
312
313 select * from product where product_id in(
314     select product_id from Cart_item where ((Cart_id in (
315         select Cart_id from Customer where Customer_id='cid109'
316     ))
317     and purchased='NO')
318 ;
319
320 select * from product where product_id in(
321     select product_id from Cart_item where ((Cart_id in (
322         select Cart_id from Customer where Customer_id='cid107'
323     ))
324     and purchased='NO')
325 ;
326
327 select product_id,Quantity_wished from Cart_item where (purchased='Y' and Cart_id in (select Cart_id from customer where Customer_id='cid101'))
328 ;
329
330 select product_id,Quantity_wished from Cart_item where (purchased='Y' and Cart_id in (select Cart_id from customer where Customer_id='cid105'))
331 ;
332
333 select product_id, color, cost, seller_id from product where (type='jeans' and p_size='32' and gender='F' and quantity>0)
334 ;

```

no data found

© 2022 Oracle - Live SQL 22.1.3, running Oracle Database 19c Enterprise Edition - 19.8.0.0.0 - Database Documentation - Ask Tom - Dev Gym
Built with ❤️ using Oracle APEX - Privacy - Terms of Use

SQL Worksheet

Clear Find Actions Save Run

```

312 select * from product where product_id in(
313     select product_id from Cart_item where ((Cart_id in (
314         select Cart_id from Customer where Customer_id='cid109'
315     ))
316     and purchased='NO')
317 ;
318
319 select * from product where product_id in(
320     select product_id from Cart_item where ((Cart_id in (
321         select Cart_id from Customer where Customer_id='cid107'
322     ))
323     and purchased='NO')
324 ;
325
326 select product_id,Quantity_wished from Cart_item where (purchased='Y' and Cart_id in (select Cart_id from customer where Customer_id='cid101'))
327 ;
328
329 select product_id,Quantity_wished from Cart_item where (purchased='Y' and Cart_id in (select Cart_id from customer where Customer_id='cid105'))
330 ;
331
332 select product_id, color, cost, seller_id from product where (type='jeans' and p_size='32' and gender='F' and quantity>0)
333 ;
334
335 select product_id, color, cost, seller_id from product where (type='jacket' and p_size='30' and gender='M' and quantity>0)
336 ;
337
338
339

```

PRODUCT_ID	QUANTITY_WISHED
pid1002	0

Download CSV

SQL Worksheet

Clear

Find

Actions

Save

Run

```

312 select * from product where product_id in(
313     select product_id from Cart_item where (Cart_id in (
314         select Cart_id from Customer where Customer_id='cid109'
315     ))
316     and purchased='NO')
317 ;
318
319
320 select * from product where product_id in(
321     select product_id from Cart_item where (Cart_id in (
322         select Cart_id from Customer where Customer_id='cid107'
323     ))
324     and purchased='NO')
325 ;
326
327 select product_id,Quantity_wished from Cart_item where (purchased='Y' and Cart_id in (select Cart_id from customer where Customer_id='cid101'))
328 ;
329
330 select product_id,Quantity_wished from Cart_item where (purchased='Y' and Cart_id in (select Cart_id from customer where Customer_id='cid105'))
331 ;
332
333 select product_id, color, cost, seller_id from product where (type='jeans' and p_size='32' and gender='F' and quantity>0)
334 ;
335
336 select product_id, color, cost, seller_id from product where (type='jacket' and p_size='30' and gender='M' and quantity>0)
337 ;
338
339

```

PRODUCT_ID	QUANTITY_WISHED
pid1005	3

Download CSV

SQL Worksheet

Clear

Find

Actions

Save

Run

```

312 select * from product where product_id in(
313     select product_id from Cart_item where (Cart_id in (
314         select Cart_id from Customer where Customer_id='cid109'
315     ))
316     and purchased='NO')
317 ;
318
319
320 select * from product where product_id in(
321     select product_id from Cart_item where (Cart_id in (
322         select Cart_id from Customer where Customer_id='cid107'
323     ))
324     and purchased='NO')
325 ;
326
327 select product_id,Quantity_wished from Cart_item where (purchased='Y' and Cart_id in (select Cart_id from customer where Customer_id='cid101'))
328 ;
329
330 select product_id,Quantity_wished from Cart_item where (purchased='Y' and Cart_id in (select Cart_id from customer where Customer_id='cid105'))
331 ;
332
333 select product_id, color, cost, seller_id from product where (type='jeans' and p_size='32' and gender='F' and quantity>0)
334 ;
335
336 select product_id, color, cost, seller_id from product where (type='jacket' and p_size='30' and gender='M' and quantity>0)
337 ;
338
339

```

no data found

SQL Worksheet

Clear

Find

Actions

Save

Run

```

312 select * from product where product_id in(
313     select product_id from Cart_item where (Cart_id in (
314         select Cart_id from Customer where Customer_id='cid109'
315     ))
316     and purchased='NO')
317 ;
318
319
320 select * from product where product_id in(
321     select product_id from Cart_item where (Cart_id in (
322         select Cart_id from Customer where Customer_id='cid107'
323     ))
324     and purchased='NO')
325 ;
326
327 select product_id,Quantity_wished from Cart_item where (purchased='Y' and Cart_id in (select Cart_id from customer where Customer_id='cid101'))
328 ;
329
330 select product_id,Quantity_wished from Cart_item where (purchased='Y' and Cart_id in (select Cart_id from customer where Customer_id='cid105'))
331 ;
332
333 select product_id, color, cost, seller_id from product where (type='jeans' and p_size='32' and gender='F' and quantity>0)
334 ;
335
336 select product_id, color, cost, seller_id from product where (type='jacket' and p_size='30' and gender='M' and quantity>0)
337 ;
338
339

```

PRODUCT_ID	COLOR	COST	SELLER_ID
pid1004	yellow	6000	sid103

Download CSV

SQL Worksheet



Actions



Run

```
325 ;
326 |
327 | select product_id,Quantity_wished from Cart_item where (purchased='Y' and Cart_id in (select Cart_id from customer where Customer_id='cid101'))
328 ;
329 |
330 | select product_id,Quantity_wished from Cart_item where (purchased='Y' and Cart_id in (select Cart_id from customer where Customer_id='cid105'))
331 ;
332 |
333 | select product_id, color, cost, seller_id from product where (type='jeans' and p_size='32' and gender='F' and quantity>0)
334 ;
335 |
336 | select product_id, color, cost, seller_id from product where (type='jacket' and p_size='30' and gender='M' and quantity>0)
337 ;
338 |
339 ;
340 |
341 | delete from cart_item where (product_id='pid1001' and Cart_id in (select cart_id from Customer where Customer_id='cid100'))
342 ;
343 |
344 | delete from seller where seller_id = 'sid100'
345 ;
346 |
347 | update product set quantity = 00 where seller_id is NULL
348 ;
349 |
350 | select product_id from cart_item where (purchased='Y' and date_added='16-JAN-2022')
351 ;
352 |
```

1 row(s) deleted.

SQL Worksheet



Actions



Run

```
325 ;
326 |
327 | select product_id,Quantity_wished from Cart_item where (purchased='Y' and Cart_id in (select Cart_id from customer where Customer_id='cid101'))
328 ;
329 |
330 | select product_id,Quantity_wished from Cart_item where (purchased='Y' and Cart_id in (select Cart_id from customer where Customer_id='cid105'))
331 ;
332 |
333 | select product_id, color, cost, seller_id from product where (type='jeans' and p_size='32' and gender='F' and quantity>0)
334 ;
335 |
336 | select product_id, color, cost, seller_id from product where (type='jacket' and p_size='30' and gender='M' and quantity>0)
337 ;
338 |
339 ;
340 |
341 | delete from cart_item where (product_id='pid1001' and Cart_id in (select cart_id from Customer where Customer_id='cid100'))
342 ;
343 |
344 | delete from seller where seller_id = 'sid100'
345 ;
346 |
347 | update product set quantity = 00 where seller_id is NULL
348 ;
349 |
350 | select product_id from cart_item where (purchased='Y' and date_added='16-JAN-2022')
351 ;
352 |
```

1 row(s) deleted.

© 2022 Oracle - Live SQL 22.1.3, running Oracle Database 19c Enterprise Edition - 19.8.0.0.0 - Database Documentation - Ask Tom - Dev Gym

SQL Worksheet



Actions



Run

```
325 ;
326 |
327 | select product_id,Quantity_wished from Cart_item where (purchased='Y' and Cart_id in (select Cart_id from customer where Customer_id='cid101'))
328 ;
329 |
330 | select product_id,Quantity_wished from Cart_item where (purchased='Y' and Cart_id in (select Cart_id from customer where Customer_id='cid105'))
331 ;
332 |
333 | select product_id, color, cost, seller_id from product where (type='jeans' and p_size='32' and gender='F' and quantity>0)
334 ;
335 |
336 | select product_id, color, cost, seller_id from product where (type='jacket' and p_size='30' and gender='M' and quantity>0)
337 ;
338 |
339 ;
340 |
341 | delete from cart_item where (product_id='pid1001' and Cart_id in (select cart_id from Customer where Customer_id='cid100'))
342 ;
343 |
344 | delete from seller where seller_id = 'sid100'
345 ;
346 |
347 | update product set quantity = 00 where seller_id is NULL
348 ;
349 |
350 | select product_id from cart_item where (purchased='Y' and date_added='16-JAN-2022')
351 ;
352 |
```

1 row(s) updated.

SQL Worksheet

Clear Find Actions Save Run

```

329 ;
330 | select product_id, quantity_wished from Cart_item where (purchased='Y' and Cart_id in (select Cart_id from Customer where Customer_id='cid101'))
331 ;
332 | select product_id, quantity_wished from Cart_item where (purchased='Y' and Cart_id in (select Cart_id from Customer where Customer_id='cid105'))
333 ;
334 | select product_id, color, cost, seller_id from product where (type='jeans' and p_size='32' and gender='F' and quantity>0)
335 ;
336 | select product_id, color, cost, seller_id from product where (type='jacket' and p_size='30' and gender='M' and quantity>0)
337 ;
338 ;
339 ;
340 ;
341 delete from cart_item where (product_id='pid1001' and Cart_id in (select cart_id from Customer where Customer_id='cid100'))
342 ;
343 ;
344 delete from seller where seller_id = 'sid100'
345 ;
346 ;
347 update product set quantity = 00 where seller_id is NULL
348 ;
349 ;
350 select product_id from cart_item where (purchased='Y' and date_added='16-JAN-2022')
351 ;
352 ;

```

PRODUCT_ID

pid1002

Download CSV

SQL Worksheet

Clear Find Actions Save Run

```

333 ; select product_id, color, cost, seller_id from product where (type='jeans' and p_size='32' and gender='F' and quantity>0)
334 ;
335 ;
336 ;
337 | select product_id, color, cost, seller_id from product where (type='jacket' and p_size='30' and gender='M' and quantity>0)
338 ;
339 ;
340 ;
341 delete from cart_item where (product_id='pid1001' and Cart_id in (select cart_id from Customer where Customer_id='cid100'))
342 ;
343 ;
344 delete from seller where seller_id = 'sid100'
345 ;
346 ;
347 update product set quantity = 00 where seller_id is NULL
348 ;
349 ;
350 select product_id from cart_item where (purchased='Y' and date_added='16-JAN-2022')
351 ;
352 ;
353 ; select count(product_id) count_pid, date_added from Cart_item where purchased='Y' group by (date_added)
354 ;
355 ;
356 | select sum(quantity_wished * cost) total_payable from product p join cart_item c on p.product_id=c.product_id where c.product_id in (select product_id from cart_item where c
357 ;
358 | select sum(quantity_wished * cost) total_payable from product p join cart_item c on p.product_id=c.product_id where c.product_id in (select product_id from cart_item where c
359 ;
360 ;

```

COUNT_PID	DATE_ADDED
1	16-JAN-22
1	18-MAR-22
1	11-JUN-22
1	19-APR-22
1	14-JUL-22

© 2022 Oracle - Live SQL 22.1.3, running Oracle Database 19c Enterprise Edition - 19.0.0.0.0 - Database Documentation - Ask Tom - Dev Gym
Built with ♥ using Oracle APEX - Privacy - Terms of Use

SQL Worksheet

Clear Find Actions Save Run

```

333 ; select product_id, color, cost, seller_id from product where (type='jeans' and p_size='32' and gender='F' and quantity>0)
334 ;
335 ;
336 ;
337 | select product_id, color, cost, seller_id from product where (type='jacket' and p_size='30' and gender='M' and quantity>0)
338 ;
339 ;
340 ;
341 delete from cart_item where (product_id='pid1001' and Cart_id in (select cart_id from Customer where Customer_id='cid100'))
342 ;
343 ;
344 delete from seller where seller_id = 'sid100'
345 ;
346 ;
347 update product set quantity = 00 where seller_id is NULL
348 ;
349 ;
350 select product_id from cart_item where (purchased='Y' and date_added='16-JAN-2022')
351 ;
352 ;
353 ; select count(product_id) count_pid, date_added from Cart_item where purchased='Y' group by (date_added)
354 ;
355 ;
356 | select sum(quantity_wished * cost) total_payable from product p join cart_item c on p.product_id=c.product_id where c.product_id in (select product_id from cart_item where c
357 ;
358 | select sum(quantity_wished * cost) total_payable from product p join cart_item c on p.product_id=c.product_id where c.product_id in (select product_id from cart_item where c
359 ;
360 ;

```

TOTAL_PAYABLE

0

Download CSV

SQL Worksheet

Clear Find Actions Save Run

```

339 ;
340 ;
341 delete from cart_item where (product_id='pid1001' and Cart_id in (select cart_id from Customer where Customer_id='cid100'))
342 ;
343 ;
344 delete from seller where seller_id = 'sid100'
345 ;
346 ;
347 update product set quantity = 00 where seller_id is NULL
348 ;
349 ;
350 select product_id from cart_item where (purchased='Y' and date_added='16-JAN-2022')
351 ;
352 ;
353 select count(product_id) count_pid,date_added from Cart_item where purchased='Y' group by(date_added)
354 ;
355 ;
356 select sum(quantity_wished * cost) total_payable from product p join cart_item c on p.product_id=c.product_id where c.product_id in (select product_id from cart_item where c
357 ;
358 ;
359 select sum(quantity_wished * cost) total_payable from product p join cart_item c on p.product_id=c.product_id where c.product_id in (select product_id from cart_item where c
360 ;
361 ;
362 select sum(quantity_wished * cost) total_payable from product p join cart_item c on p.product_id=c.product_id where c.product_id in (select product_id from cart_item where c
363 ;
364 ;
365 Select * from customer where customer_id not in (select customer_id from Payment)
366 ;

```

TOTAL_PAYABLE

31983

Download CSV

SQL Worksheet

Clear Find Actions Save Run

```

351 ;
352 ;
353 select count(product_id) count_pid,date_added from Cart_item where purchased='Y' group by(date_added)
354 ;
355 ;
356 select sum(quantity_wished * cost) total_payable from product p join cart_item c on p.product_id=c.product_id where c.product_id in (select product_id from cart_item where c
357 ;
358 ;
359 select sum(quantity_wished * cost) total_payable from product p join cart_item c on p.product_id=c.product_id where c.product_id in (select product_id from cart_item where c
360 ;
361 ;
362 select sum(quantity_wished * cost) total_payable from product p join cart_item c on p.product_id=c.product_id where c.product_id in (select product_id from cart_item where c
363 ;
364 ;
365 Select * from customer where customer_id not in (select customer_id from Payment)
366 ;
367 ;
368 select sum(quantity_wished * cost * commission/100) total_profit from product p join cart_item c on p.product_id=c.product_id where purchased='Y'
369 ;
370 ;
371 select sum(quantity_wished * cost * commission/100) total_profit from product p join cart_item c on p.product_id=c.product_id where purchased='Y'
372 ;
373 ;
374 create or replace procedure cost_filter(c in number,t in varchar)
375 is
376 cs product.cost%type;
377 tv product.tvos%type;
378 ;

```

CUSTOMER_ID	C_PASS	NAME	ADDRESS	PINCODE	PHONE_NUMBER_S	CART_ID
cid100	ABCH1239	pr-ija	G-450	632020	9893135376	crt1019

Download CSV

© 2022 Oracle - Live SQL 22.1.3, running Oracle Database 19c Enterprise Edition - 19.8.0.0.0 - Database Documentation - Ask Tom - Dev Gym

SQL Worksheet

Clear Find Actions Save Run

```

351 ;
352 ;
353 select count(product_id) count_pid,date_added from Cart_item where purchased='Y' group by(date_added)
354 ;
355 ;
356 select sum(quantity_wished * cost) total_payable from product p join cart_item c on p.product_id=c.product_id where c.product_id in (select product_id from cart_item where c
357 ;
358 ;
359 select sum(quantity_wished * cost) total_payable from product p join cart_item c on p.product_id=c.product_id where c.product_id in (select product_id from cart_item where c
360 ;
361 ;
362 select sum(quantity_wished * cost) total_payable from product p join cart_item c on p.product_id=c.product_id where c.product_id in (select product_id from cart_item where c
363 ;
364 ;
365 Select * from customer where customer_id not in (select customer_id from Payment)
366 ;
367 ;
368 select sum(quantity_wished * cost * commission/100) total_profit from product p join cart_item c on p.product_id=c.product_id where purchased='Y'
369 ;
370 ;
371 select sum(quantity_wished * cost * commission/100) total_profit from product p join cart_item c on p.product_id=c.product_id where purchased='Y'
372 ;
373 ;
374 create or replace procedure cost_filter(c in number,t in varchar)
375 is
376 cs product.cost%type;
377 tv product.tvos%type;
378 ;

```

TOTAL_PROFIT

49988.15

Download CSV

SQL Worksheet

ClearFindActionsSaveRun

```
370
371      select sum(quantity_wished * cost * commission/100) total_profit from product p join cart_item c on p.product_id=c.product_id where purchased='Y'
372
373
374 create or replace procedure cost_filter(c in number,t in varchar)
375 is
376 cs product.coststype;
377 ty product.typestype;
378 id product.product_idstype;
379 cursor cf is
380 select product_id,cost,type from product where cost=c and type=t;
381 begin
382 open cf;
383 loop
384 fetch cf into id,cs,ty;
385 exit when cf%notfound;
386 dbms_output.put_line('Product' || id || ' has cost ' || cs || ' and the type is' || ty);
387 end loop;
388 close cf;
389 exception
390 when no_data_found then
391 dbms_output.put_line('Sorry no such products exist');
392 end;
393
394
395
396
397
```

Procedure created.

SQL Worksheet

ClearFindActionsSaveRun

```
387
388 end loop;
389 close cf;
390 exception
391 when no_data_found then
392 dbms_output.put_line('Sorry no such products exist');
393 end;
394
395
396
397 create or replace function totalProducts(sid in varchar)
398 return number
399 is
400 total number(2):=0;
401 begin
402 select count(*) into total
403 from product
404 where seller_id=sid;
405 return total;
406 end;
407
408
409
410 declare
411 c number(2);
412 begin
413 c:=totalProducts('sid102');
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
```

Function created.

SQL Worksheet

ClearFindActionsSaveRun

```
403
404 from product
405 where seller_id=sid;
406 return total;
407 end;
408
409
410 declare
411 c number(2);
412 begin
413 c:=totalProducts('sid102');
414 dbms_output.put_line('Total products is : ' || c);
415 end;
416
417
418
419 declare
420 c number(2);
421 begin
422 c:=totalProducts('sid106');
423 dbms_output.put_line('Total products is : ' || c);
424 end;
425
426
427
428 declare
429
```

Statement processed.
Total products is : 1

SQL Worksheet

ClearFindActionsSaveRun

```
433 end;
434
435 /
436
437 | declare
438 c number(2);
439 begin
440 c:=totalProducts('sid109');
441 dbms_output.put_line('Total products is : '|| c);
442 end;
443
444 /
445
446 create or replace procedure prod_details(p_id in varchar)
447 is
448 quan number(2);
449 begin
450 select quantity into quan from product where product_id=p_id;
451 exception
452 when no_data_found then
453 dbms_output.put_line('Sorry no such product exist !!');
454 end;
455
456 /
457
458 create or replace function numCartId(cd in varchar)
459 return number
460
```

Procedure created.

SQL Worksheet

ClearFindActionsSaveRun

```
448 quan number(2);
449 begin
450 select quantity into quan from product where product_id=p_id;
451 exception
452 when no_data_found then
453 dbms_output.put_line('Sorry no such product exist !!');
454 end;
455
456 /
457
458 create or replace function numCartId(cd in varchar)
459 return number
460 is
461 total number(2):=0;
462 begin
463 select count(*) into total
464 from cart_item
465 where cart_id=cd;
466 return total;
467 end;
468
469 Trigger
470 Create or replace trigger before_customer
471 before insert
472 on
473 customer
474 for each row
475
```

Function created.

SQL Worksheet

ClearFindActionsSaveRun

```
469
470 Trigger
471 Create or replace trigger before_customer
472 before insert
473 on
474 customer
475 for each row
476 declare
477 c varchar(10);
478 n number(2);
479 begin
480 c:= :new.cart_id;
481 n:=numCartId(c);
482 if n=0 then
483 dbms_output.put_line('Sorry');
484 end if;
485 insert into cart values(c);
486 end;
487
488 /
489
490 create or replace function numCartId(cd in varchar)
491 return number
492 is
493 total number(2):=0;
494 begin
495
```

Trigger created.

SQL Worksheet

Clear

Find

Actions

Save

Run

```
489 /
490
491
492
493
494
495 /
496
497 create or replace function CartId(cd in varchar)
498 return number
499 is
500     total number(2) := 0;
501 begin
502     select count(*) into total
503     from cart_item
504     where cart_id = cd;
505     return total;
506 end;
507
508 Trigger
509 Create or replace trigger before_customer
510 before insert
511 on
512 customer
513 for each row
514 declare
515     c varchar(10);
516     n number(2);
517
```

Function created.

© 2022 Oracle - Live SQL 22.1.3, running Oracle Database 19c Enterprise Edition - 19.8.0.0.0 - Database Documentation - Ask Tom - Dev Gym
Built with ♥ using Oracle APEX - Privacy - Terms of Use

SQL Worksheet

Clear

Find

Actions

Save

Run

```
497 create or replace function CartId(cd in varchar)
498 return number
499 is
500     total number(2) := 0;
501 begin
502     select count(*) into total
503     from cart_item
504     where cart_id = cd;
505     return total;
506 end;
507
508 Trigger
509 Create or replace trigger before_customer
510 before insert
511 on
512 customer
513 for each row
514 declare
515     c varchar(10);
516     n number(2);
517 begin
518     c := :new.cart_id;
519     n := numCartId(c);
520     if n > 0 then
521         dbms_output.put_line('Sorry');
522     end if;
523     insert into cart values(c);
524 end;
```

Trigger created.

© 2022 Oracle - Live SQL 22.1.3, running Oracle Database 19c Enterprise Edition - 19.8.0.0.0 - Database Documentation - Ask Tom - Dev Gym
Built with ♥ using Oracle APEX - Privacy - Terms of Use

Live SQL

Feedback Help vedaants51@gmail.com

SQL Worksheet Clear Find Actions Save Run

```
491 begin
492     c := :new.cart_id;
493     n := numCartId(c);
494     if n > 0 then
495         dbms_output.put_line('Sorry');
496     end if;
497     insert into cart values(c);
498 end;
499
500 create or replace function total_cost(cId in varchar)
501 return number
502 is
503     total number(2) := 0;
504 begin
505     select sum(cost) into total from product, cart_item where product.product_id = cart_item.product_id and
506     return total;
507 end;
508
509 create or replace trigger before_pay_up
510 before insert
511 on
512 payment
513 for each row
514 declare
515     total number(3);
516 begin
517     total := total_cost(:new.cart_id);
518
```

Function created.

Live SQL

FeedbackHelpvedaants51@gmail.com

SQL Worksheet

ClearFindActionsSaveRun

```
493 n:=numartid(c);
494 if n>0 then
495     dbes_output.put_line('Sorry');
496 end if;
497 insert into cart values(c);
498 end;
499
500 create or replace function total_cost(cId in varchar)
501 return number
502 is
503     total number(2) :=0;
504 begin
505     select sum(cost) into total from product, cart_item where product.product_id=cart_item.product_id and
506     return total;
507 end;
508
509 create or replace trigger before_pay_up
510 before insert
511 on
512 payment
513 for each row
514 declare
515     total number(3);
516 begin
517     total :=total_cost(:new.cart_id);
518     insert into payment values(:new.payment_id,:new.payment_date,:new.payment_type,:new.customer_id,:new
519 end;
```

Trigger created.