**EXP 11 - PL/SQL Exceptions**

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1. Create table product with fields productid,product name,product description and available quantity.

CREATE TABLE product(

pid number,

pname varchar(20),

pdesc varchar(20),

availqty number

);

**OUPUT**

Table created.

1. Create table orders with fields orderid,productid and order quantity.

CREATE TABLE orders(

oid number,

pid number,

orderqty number

);

**OUPUT**

Table created.

1. Insert values to both tables.

insert into product values(1, 'Apple', 'Fruit', 20);

insert into product values(2, 'Chair', 'Chairs for home', 30);

insert into product values(100, 'Samsung S21', 'Best Phone in market', 50);

insert into orders values(1, 1, 15);

insert into orders values(2, 2, 25);

insert into orders values(3, 100, 30);

SELECT \* FROM orders;

**OUPUT**

OID PID ORDERQTY

1 1 15

2 2 25

3 100 30

SELECT \* FROM product;

**OUPUT**

|  |  |  |  |
| --- | --- | --- | --- |
| **PID** | **PNAME** | **PDESC** | **AVAILQTY** |
| 1 | Apple | Fruit | 20 |
| 2 | Chair | Chairs for home | 30 |
| 100 | Samsung S21 | Best Phone in market | 50 |

1. Create a pl/sql program to select details of products with id=100.Write exception to handle
2. no data found
3. cursor already open

DECLARE

pid product.pid%type;

pname product.pname%type;

BEGIN

SELECT pid,pname

INTO pid,pname

FROM product

WHERE pid = 100;

dbms\_output.put\_line('PID: '|| pid || ', NAME: ' || pname);

EXCEPTION

WHEN no\_data\_found THEN

dbms\_output.put\_line('No such product');

WHEN cursor\_already\_open THEN

dbms\_output.put\_line('Cursor is already open');

END;

**OUPUT**

PID: 100, NAME: Samsung S21

1. Write a PL/SQL program to find out product name and number of products ordered.If total number of items is greater than 20 then display discount applicable,else display discount not applicable.

DECLARE

prodname product.pname%type;

ordid orders.oid%type;

ordqty orders.orderqty%type;

cursor pdata is select pname,oid, orderqty from orders natural join product;

BEGIN

open pdata;

LOOP

FETCH pdata into prodname,ordid,ordqty;

EXIT WHEN pdata%notfound;

dbms\_output.put\_line('Order id: '|| ordid || ', Product name: '|| prodname ||', Order Quantity: '|| ordqty);

if ordqty > 20 then

dbms\_output.put\_line('Discount applicable');

else

dbms\_output.put\_line('Discount not applicable');

end if;

dbms\_output.new\_line;

END LOOP;

close pdata;

END;

**OUPUT**

Order id: 1, Product name: Apple, Order Quantity: 15

Discount not applicable

Order id: 2, Product name: Chair, Order Quantity: 25

Discount applicable

Order id: 3, Product name: Samsung S21, Order Quantity: 30

Discount applicable