

9. Active database Report:

For the sales to happen user gives the product_no and quantity to buy

So the approach taken is create a procedure **sp_sales_in_progress** which takes product_no and quantity the user wants to buy.

Now before sales completed, we check if the qoh in product table is sufficient to supply the user demand. If statement is used to check this in the code

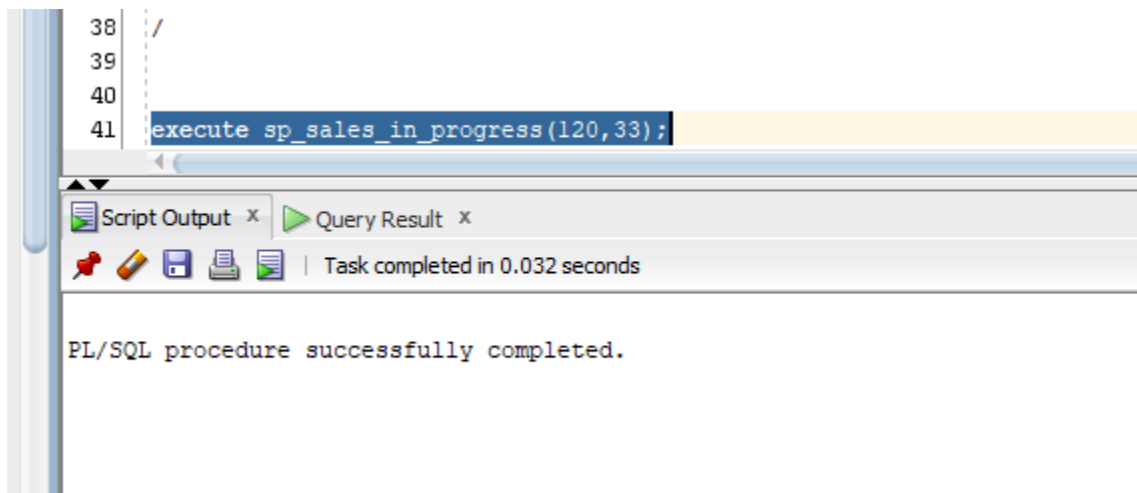
```
if v_qoh_in_prod_table > p_qoh then
```

we proceed the sales and reduce the qoh in product table;

other wise we insert new record to buy that product . This is done by inserting rows in prodvendor table and vendorprice tables.

When the rows are inserted in these tables the trigger update_qoh is used to update the qoh again in product tables..

Execution of procedure:



```
create or replace procedure sp_sales_in_progress( p_prod_no int,p_qoh int)
as
v_date date;
v_order_no int := 1155;
v_order_line int:=222;
v_employee_no int := 1042;
v_customer_no int :=1099;
v_branch_no int:=108;
-- variables for prodvendor table
v_po_no int := 222;
```

```

v_vend_qty int := 400;
v_dprice varchar(5) := '24';
v_vprice_no int :=107;
v_vprice int := 57;
v_discount float := 0.01 ;
v_qoh_in_prod_table int;
v_vendor_no int;
begin
select qoh into v_qoh_in_prod_table from product where product_no=p_prod_no ;
if v_qoh_in_prod_table > p_qoh then

    insert into orderline values( v_order_line,p_prod_no,p_qoh,v_order_no);
else
    dbms_output.put_line('We are out of stock for the product orderd.Email has been
sent.');
```

```

    select vendor_no into v_vendor_no from vendorprice where product_no =p_prod_no;
    dbms_output.put_line('vendor no line 65 '|| v_vendor_no);
    select sysdate into v_date from dual;

    execute immediate 'insert into prodvendor values('||
v_po_no||','||v_vendor_no||','||p_prod_no||','||v_date||','||v_date+5||','||v_date|
||','||p_qoh||','||v_dprice||')';

end if;
end;
/
```

Triggers used :

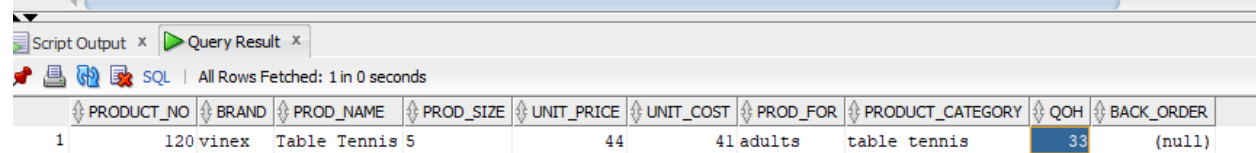
```

create or replace trigger update_qoh
before insert on prodvendor
for each row
declare
v_qoh int;
v_qoh_total int;
begin
SELECT qoh into v_qoh from product where product_no=:new.product_no;
dbms_output.put_line('test :'|| v_qoh );
v_qoh_total:=v_qoh+:new.vend_qty;
update product set qoh = v_qoh_total where product_no=:new.product_no;
end;
/
```

```
create or replace trigger reduce_qoh_orderline
before insert on orderline
for each row
declare
v_qoh int;
v_qoh_total int;
begin
SELECT qoh into v_qoh from product where product_no=:new.product_no;
dbms_output.put_line('test :'| v_qoh );
v_qoh_total:=v_qoh-:new.qty;
update product set qoh = v_qoh_total where product_no=:new.product_no;
end;
/
```

Verification.

```
38 |
39 | execute sp_sales_in_progress(120,33);
40 | select * from product where product_no = 120;
```



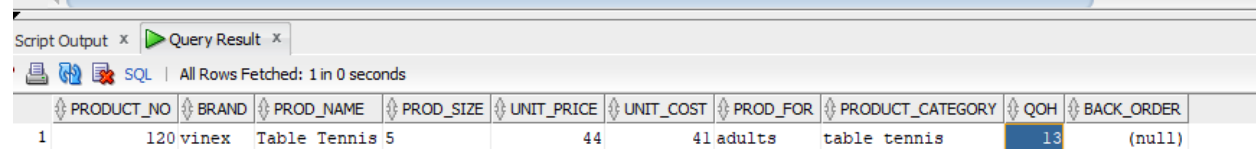
Script Output x Query Result x

SQL | All Rows Fetched: 1 in 0 seconds

	PRODUCT_NO	BRAND	PROD_NAME	PROD_SIZE	UNIT_PRICE	UNIT_COST	PROD_FOR	PRODUCT_CATEGORY	QOH	BACK_ORDER
1	120	vinex	Table Tennis	5	44	41	adults	table tennis	33	(null)

Then execute the procedure execute sp_sales_in_progress(120,20);,
The qoh is reduced..

```
10 |
11 | select * from product where product_no = 120;
```



Script Output x Query Result x

SQL | All Rows Fetched: 1 in 0 seconds

	PRODUCT_NO	BRAND	PROD_NAME	PROD_SIZE	UNIT_PRICE	UNIT_COST	PROD_FOR	PRODUCT_CATEGORY	QOH	BACK_ORDER
1	120	vinex	Table Tennis	5	44	41	adults	table tennis	13	(null)

```
select * from prodvendor;
```

PO_NO	VENDOR_NO	PRODUCT_NO	ORDER_DATE	EXPECTED_RECVD_DATE	ACTUAL_RECVD_DATE	VEND_QTY	DPRICE
1	1093	1002	120 07-MAY-03	14-MAY-03	(null)	471 149	
2	1094	1002	130 07-MAY-03	14-MAY-03	(null)	942 32	
3	1095	1000	140 07-MAY-03	14-MAY-03	(null)	937 32	
4	1096	1001	150 07-MAY-03	14-MAY-03	(null)	471 30	
5	1097	1002	130 07-MAY-03	14-MAY-03	(null)	42 32	

```

40
41 select * from product where product_no = 120;
42 select * from prodvendor;

```

PO_NO	VENDOR_NO	PRODUCT_NO	ORDER_DATE	EXPECTED_RECVD_DATE	ACTUAL_RECVD_DATE	VEND_QTY	DPRICE
1	1093	1002	120 07-MAY-03	14-MAY-03	(null)	471 149	
2	1094	1002	130 07-MAY-03	14-MAY-03	(null)	942 32	
3	1095	1000	140 07-MAY-03	14-MAY-03	(null)	937 32	
4	1096	1001	150 07-MAY-03	14-MAY-03	(null)	471 30	
5	1097	1002	130 07-MAY-03	14-MAY-03	(null)	42 32	
6	222	1002	120 25-JUL-18	30-JUL-18	25-JUL-18	20 24	

Here after the execution of the sp the new row is added in the prod_vendor table..
Also the qoh in the product is increased by 20.

```

37
38
39 execute sp_sales_in_progress(120,20);
40
41 select * from product where product_no = 120;
42 select * from prodvendor;
43 select * from product where product_no = 120;

```

PRODUCT_NO	BRAND	PROD_NAME	PROD_SIZE	UNIT_PRICE	UNIT_COST	PROD_FOR	PRODUCT_CATEGORY	QOH	BACK_ORDER
1	120 vinex	Table Tennis	5	44	41 adults	table tennis		33	(null)

Similarly the product no is changed as well as the quantity for testing all the results were passed hence this verify the logic is correctly implemented by procedures and triggers..