

Name: Shaheer Shamsi
Username: shaheer-shamsi

3dotsss advdb Task 06

Querying and Updating Orders in the Purchase System

a) Find all the orders placed by Customer 101

The screenshot shows the Oracle SQL Developer interface. The 'Connections' pane on the left lists 'LOCAL_ORACLE' as the selected connection. The 'Worksheet' area contains the following SQL code:

```
alter table customers add constraint pk_customers primary key (custno);

--a)find order of customer 101
select *
from purchase_orders po
where po.cust_ref = (
  select ref(c)
  from customers c
  where c.custno = 1
);
```

The 'Query Result' pane at the bottom displays the results of the query. It shows a single row with the following data:

PONO	ORDER_DATE	CUST_REF	LINEITEMS
1	1001 29-JUN-25	["shaheer-shamsi_2222127042"."CUSTOMER_TYP"]	"shaheer-shamsi_2222127042".":

The status bar at the bottom indicates 'Line 4 Column 1 | Insert | Modified | Windows: C'.

b) Find all purchase orders that include items with Stock ID 103

The screenshot shows the Oracle SQL Developer interface with the title bar 'Oracle SQL Developer : LOCAL_ORACLE'. The menu bar includes File, Edit, View, Navigate, Run, Source, Team, Tools, Window, and Help. The toolbar contains icons for file operations, execution, and navigation. The 'Connections' pane on the left shows 'LOCAL_ORACLE' selected under 'Oracle Connections'. The 'Reports' pane on the left lists various report types. The main workspace is split into 'Worksheet' and 'Query Builder' tabs. The 'Worksheet' tab contains the following SQL query:

```
--b) find orders with stock id 103
select
  po.pono,
  li.lineitem_no,
  s.stock_id,
  li.quantity
from   purchase_orders po,
       TABLE(po.lineitems) li,
       stockitems s
where  s.stock_id = 103 AND REF(s) = li.stockref;
```

The 'Query Result' tab shows the results of the query, indicating 'All Rows Fetched: 2 in 0.095 seconds'. The results are displayed in a table with the following columns: PONO, LINEITEM_NO, STOCK_ID, and QUANTITY.

PONO	LINEITEM_NO	STOCK_ID	QUANTITY
1	1001	203	103
2	1003	208	103

The status bar at the bottom indicates 'Click on an identifier with the Control key down to perform "Go to Declaration"', 'Line 23 Column 1', 'Insert', 'Modified', and 'Windows: C'.

c) Update the stock reference for the second line item of Purchase Order 1001

The screenshot displays the Oracle SQL Developer interface with the title bar 'Oracle SQL Developer : LOCAL_ORACLE'. The menu bar includes File, Edit, View, Navigate, Run, Source, Team, Tools, Window, and Help. The toolbar contains icons for file operations and execution. The 'Connections' pane on the left shows the 'LOCAL_ORACLE' connection selected under 'Oracle Connections'. The 'Reports' pane also lists various report types. The main workspace is split into 'Worksheet' and 'Query Builder' tabs. The 'Worksheet' tab contains the following SQL script:

```
--c)update stock ref for 2nd item of POno 1001
update the (
  select po.lineitems
  from purchase_orders po
  where po.pono = 1001
)
set stockref = (
  select ref(s)
  from stockitems s
  where s.stock_id = 105
)
where lineitem_no = 2002;
```

Below the script, the 'Script Output' pane shows the execution result: '1 row updated.' and 'Task completed in 0.193 seconds'. The status bar at the bottom indicates 'Line 35 Column 26 | Insert | Modified | Windows: C'.

SQL:

(a)

```
select *  
from purchase_orders po  
where po.cust_ref = (  
    select ref(c)  
    from customers c  
    where c.custno = 1  
);
```

(b)

```
select  
    po.pono,  
    li.lineitem_no,  
    s.stock_id,  
    li.quantity  
from    purchase_orders po,  
        TABLE(po.lineitems) li,  
        stockitems s  
where s.stock_id = 103 AND REF(s) = li.stockref;
```

(c)

```
update the (  
    select po.lineitems  
    from purchase_orders po  
    where po.pono = 1001  
)  
set stockref = (  
    select ref(s)  
    from stockitems s  
    where s.stock_id = 105  
)  
where lineitem_no = 2002;
```