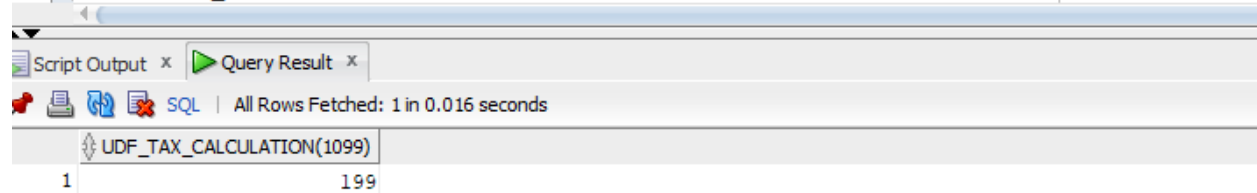


Q7: Stored Procedures, Using the latest version of your database, do the followings

Develop a stored procedure to receive a product number and returns the total number product sold

```
152 |
153 | create or replace function udf_tax_calculation(p_customer_no int)
154 | return int
155 | as
156 | v_custnomer int ;
157 | v_order_no int;
158 | v_tax float;
159 | cursor cl is
160 | select o.order_no,c.customer_no,sum(t.tax_rate*o.subtotal) as tax_amount from customer c
161 | join orders o
162 | on o.customer_no=c.customer_no
163 | join tax t
164 | on c.state=t.state
165 | group by o.order_no,c.customer_no
166 | HAVING c.customer_no =p_customer_no ;
167 | begin
168 | open cl;
169 | loop
170 |   fetch cl into v_order_no,v_custnomer,v_tax;
171 |   exit when cl%notfound;
172 |   return v_tax;
```



The screenshot shows a database interface with a 'Query Result' tab. Below the tab, it indicates 'All Rows Fetched: 1 in 0.016 seconds'. The result is displayed in a table with one row and one column, showing the value 199 for the function call UDF_TAX_CALCULATION(1099).

UDF_TAX_CALCULATION(1099)
199

* Develop a stored procedure to receive a product number and year, and returns the total number product sold for that year

```
5 SET SERVEROUTPUT ON SIZE 1000000
6 DECLARE
7     l_cursor SYS_REFCURSOR;
8     p_prod_number    int;
9     p_year            int;
10    l_orderscount     int;
11 BEGIN
12     DBMS_OUTPUT.PUT_LINE('Product_no P_year  Product_sold' );
13     DBMS_OUTPUT.PUT_LINE('-----');
14     get_emp_rs_yearly (p_prod_number    => 110,
15                       p_year            => 2000,
16                       p_recordset => l_cursor);
17     LOOP
18         FETCH l_cursor
19         INTO  p_prod_number,p_year, l_orderscount;
20         EXIT WHEN l_cursor%NOTFOUND;
21
22         DBMS_OUTPUT.PUT_LINE(p_prod_number || '      ' || p_year || '      ' || l_orderscount );
23     END LOOP;
24     CLOSE l_cursor;
25 END;
```

Script Output x

Task completed in 0.19 seconds

316

* Develop a procedure that will receive a product number, a month, a year, and returns the sales for that year

SQL Worksheet | History | 0.094 seconds | oes2

Worksheet | Query Builder

```
96 l_cursor SYS_REFCURSOR;
97 p_prod_number int;
98 p_year int;
99 l_sale int;
100 BEGIN
101     DBMS_OUTPUT.PUT_LINE('Product_no P_year Slae' );
102     DBMS_OUTPUT.PUT_LINE('-----' );
103     get_emp_rs_yearly_sales (p_prod_number => 170,
104                             p_year => 2000,
105                             p_recordset => l_cursor);
106     LOOP
107         FETCH l_cursor
108         INTO p_prod_number,p_year, l_sale;
109         EXIT WHEN l_cursor%NOTFOUND;
110         DBMS_OUTPUT.PUT_LINE(p_prod_number || ' ' || p_year || ' ' || l_sale );
```

Script Output x | Task completed in 0.094 seconds

Procedure GET_EMP_RS_YEARLY_SALES compiled

Product_no	P_year	Slae
170	2000	3124865

PL/SQL procedure successfully completed.