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Programme: B.Tech CSE (Spec. AI&ML) (Batch 5)
Course: Advanced Database Management Systems

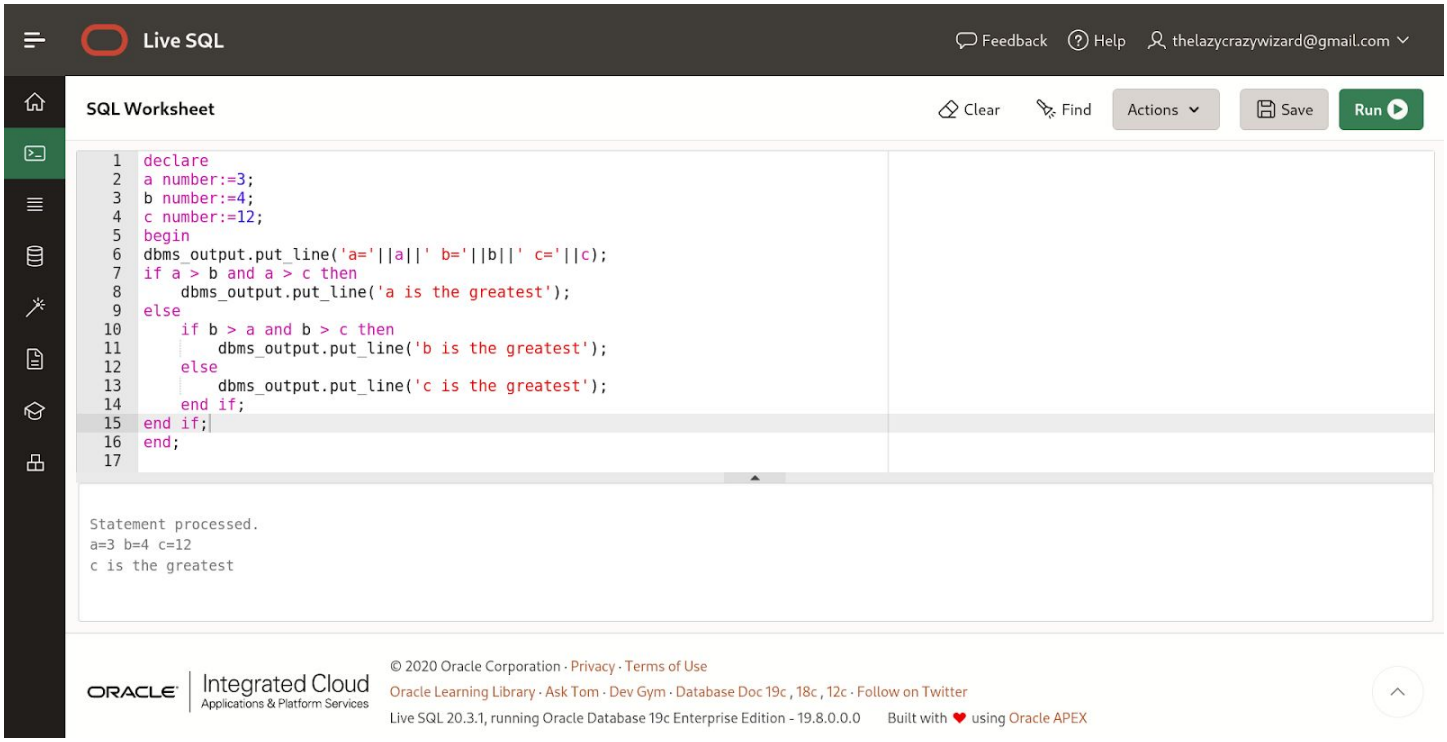
LAB 9

Title: To understand the concepts of PL/SQL programming.
Objective: Students will be able to implement the basic concepts of Pl/SQL.

1. Write a PL/SQL code to accept the value of A, B & C display which is greater.

Ans.1.

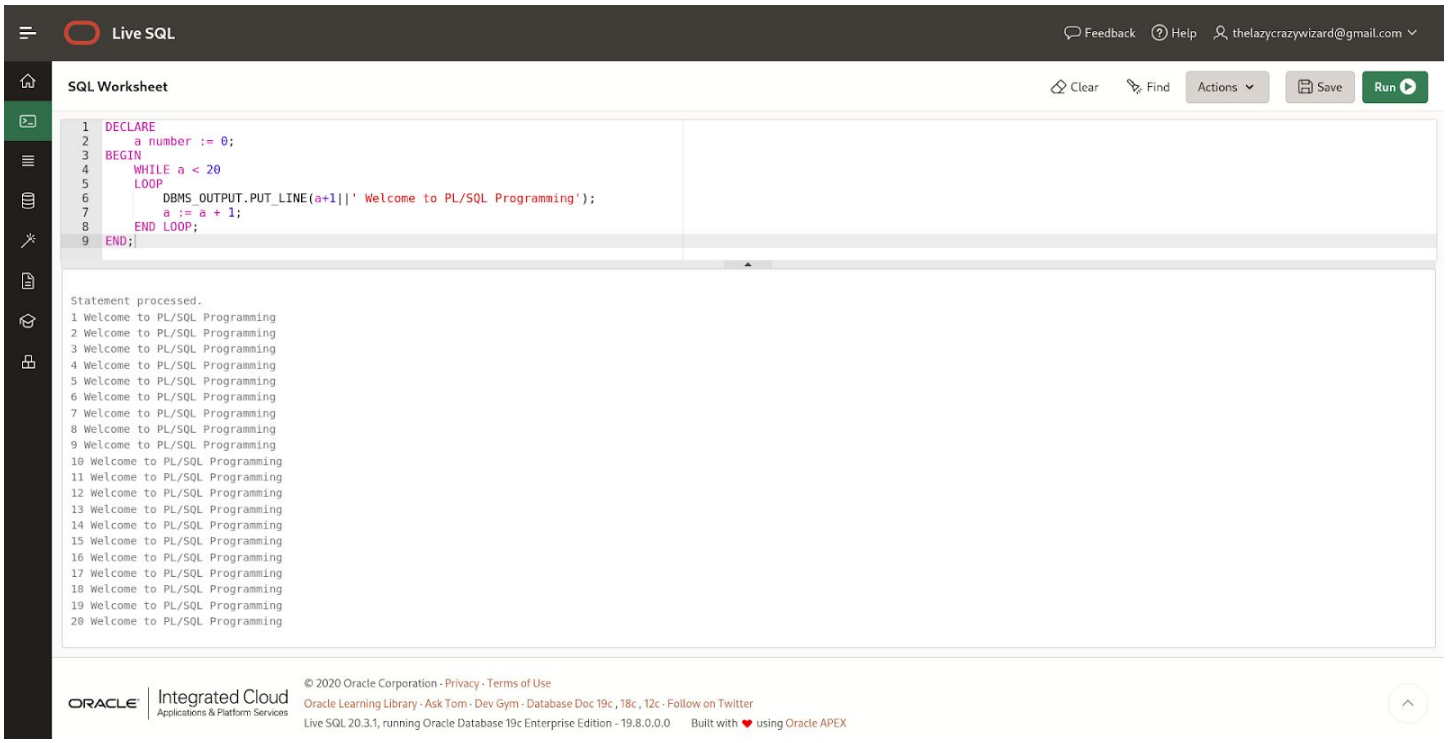
```
declare
a number:=3;
b number:=4;
c number:=12;
begin
dbms_output.put_line('a='||a||' b='||b||' c='||c);
if a > b and a > c then
 dbms_output.put_line('a is the greatest');
else
 if b > a and b > c then
        dbms_output.put_line('b is the greatest');
 else
        dbms_output.put_line('c is the greatest');
 end if;
end if;
end;
```



2. Using PL/SQL Statements create a simple loop that display message “Welcome to PL/SQL Programming” 20 times.

Ans.2.

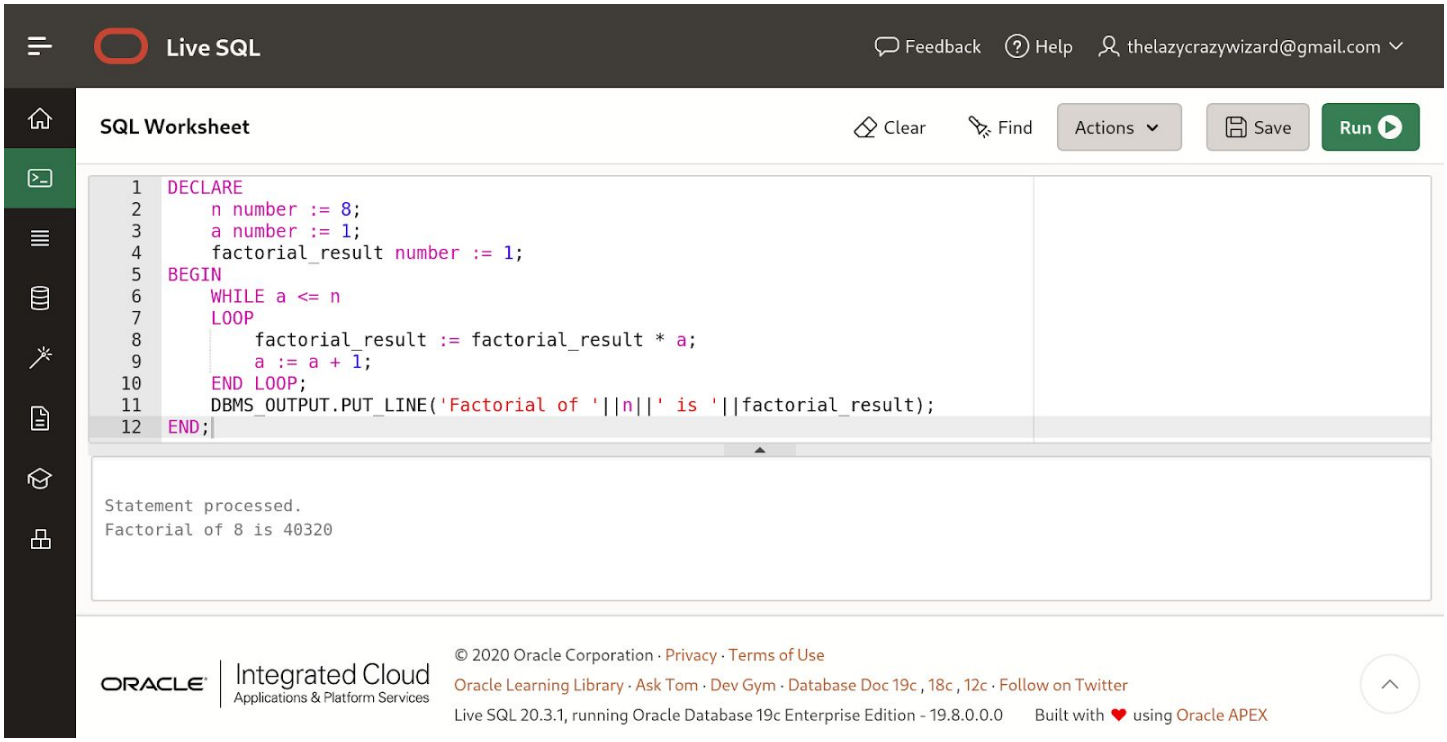
```
DECLARE
 a number := 0;
BEGIN
 WHILE a < 20
 LOOP
        DBMS_OUTPUT.PUT_LINE(a+1||' Welcome to PL/SQL Programming');
        a := a + 1;
 END LOOP;
END;
```



3. Write a PL/SQL code block to find the factorial of a number.

Ans.3.

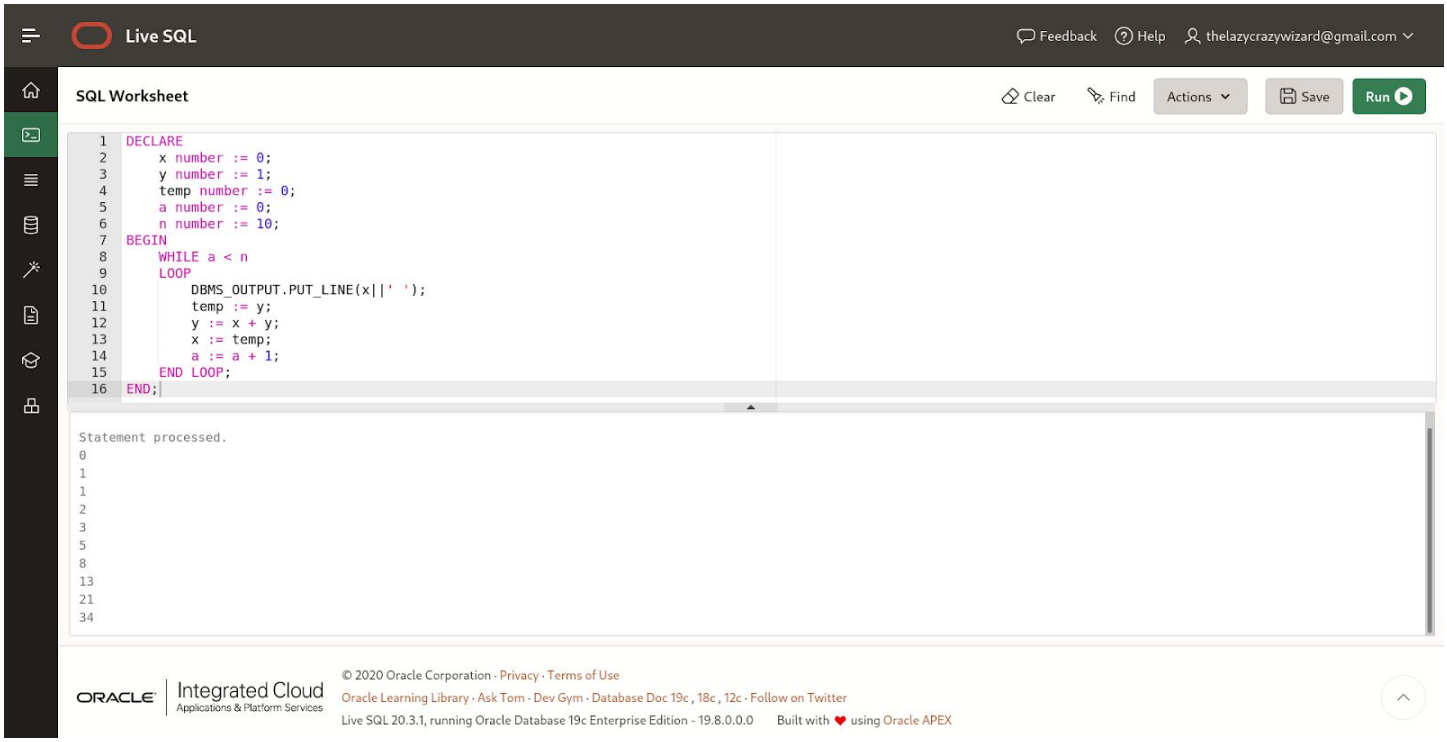
```
DECLARE
 n number := 8;
 a number := 1;
 factorial_result number := 1;
BEGIN
 WHILE a <= n
 LOOP
        factorial_result := factorial_result * a;
        a := a + 1;
 END LOOP;
 DBMS_OUTPUT.PUT_LINE('Factorial of '||n||' is '||factorial_result);
END;
```



4. Write a PL/SQL program to generate Fibonacci series.

Ans.4.

```
DECLARE
 x number := 0;
 y number := 1;
 temp number := 0;
 a number := 0;
 n number := 10;
BEGIN
 WHILE a < n
 LOOP
        DBMS_OUTPUT.PUT_LINE(x||' ');
        temp := y;
        y := x + y;
        x := temp;
        a := a + 1;
 END LOOP;
END;
```



5. Write a PL/SQL code to find the sum of first N numbers.

Ans.5.

```
DECLARE
 sum_result number := 0;
 a number := 0;
 n number := 8;
BEGIN
 WHILE a <= n
 LOOP
        sum_result := sum_result + a;
        a := a + 1;
 END LOOP;
 DBMS_OUTPUT.PUT_LINE('SUM upto '||n||' is '||sum_result);
END;
```