DBMS Assignment 4

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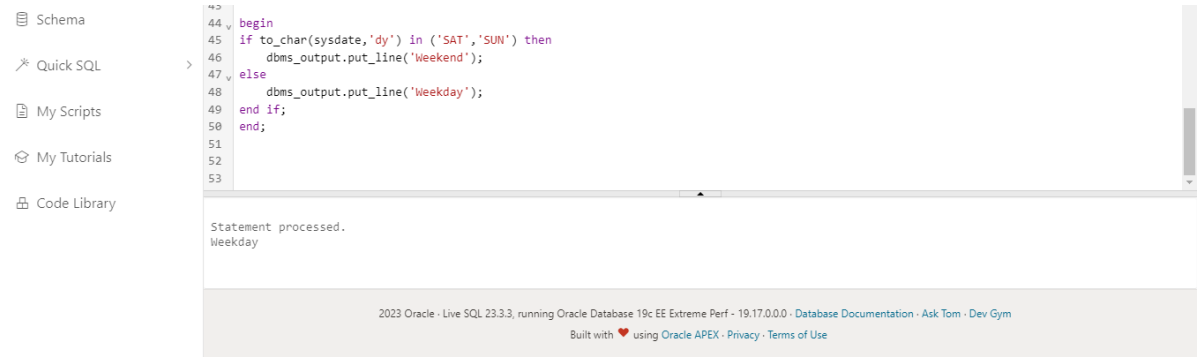
1) Write a PL/SQL code to print Today is fall on weekend or weekdays using if else

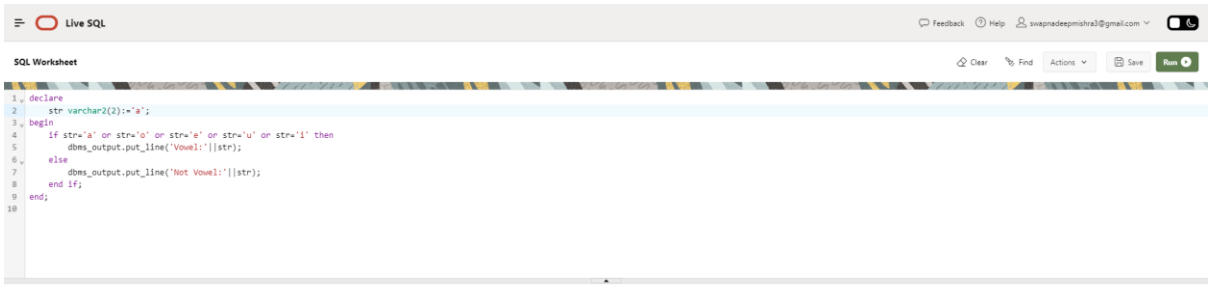
statement.

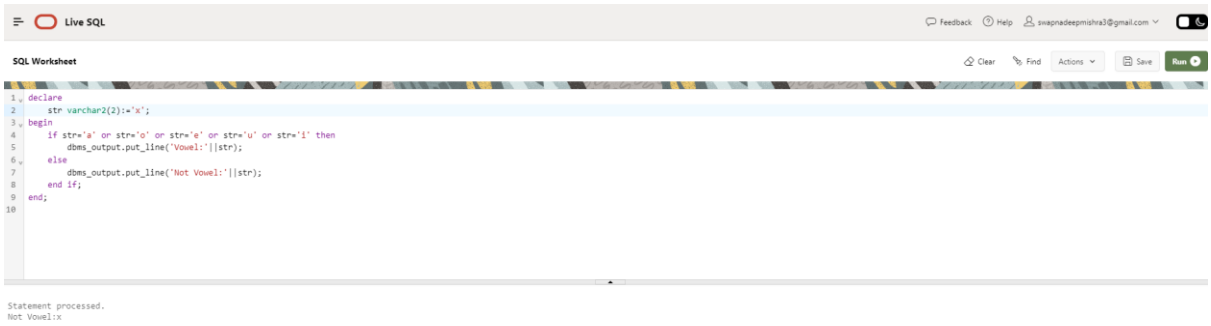
```
begin
if to_char(sysdate,'dy') in ('SAT','SUN') then
        dbms_output.put_line('Weekend');
else
        dbms_output.put_line(to_char(sysdate,'dy'));
end if;
end;
```



2) Write a PL/SQL code to check that an inputted a single character is vowel or not .If vowel then display which vowel it is.

```
declare
        str varchar2(2):='x';
begin
        if str='a' or str='o' or str='e' or str='u' or str='i' then
                dbms_output.put_line('Vowel:'||str);
        else
                dbms_output.put_line('Not Vowel:'||str);
        end if;
end;
```



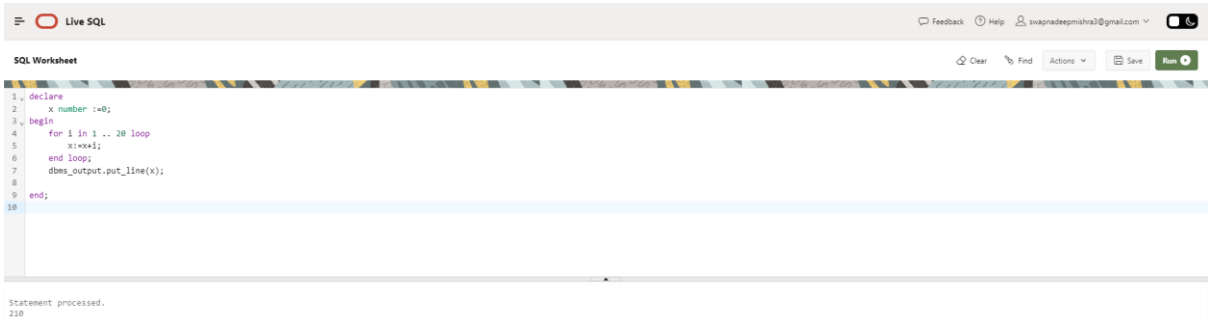


3) Write a PL/SQL code block to find out the sum of first twenty natural numbers (1+2+3+4+5+6+7+8+9+10+-----+20 this series).

```
declare
```

```
        x number :=0;
begin
    for i in 1 .. 20 loop
        x:=x+i;
    end loop;
        dbms_output.put_line(x);

end;
```

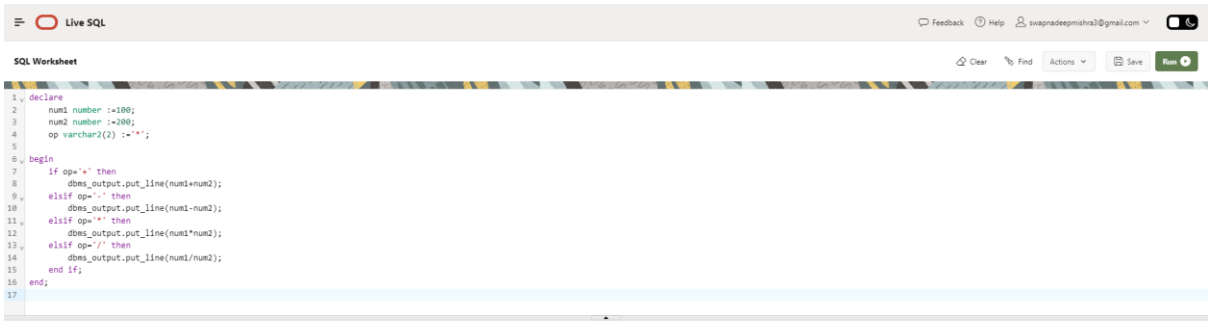


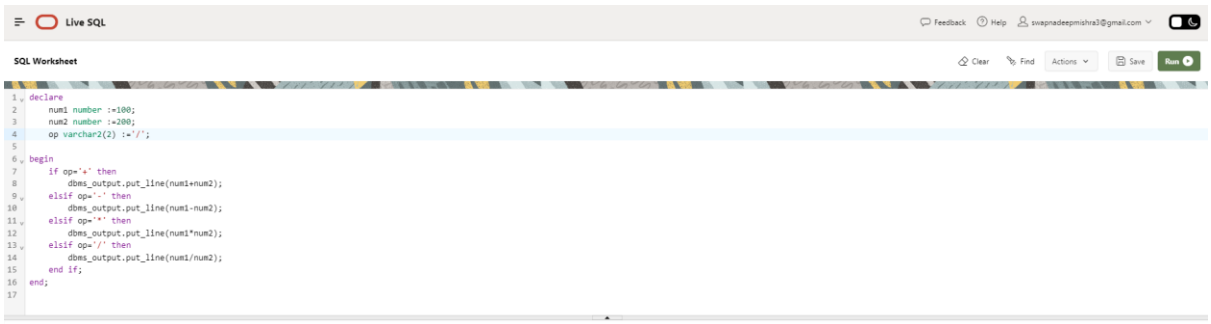
4) Write a PL/SQL block that will ask for two numbers and one operand (+, -, *, /). Then

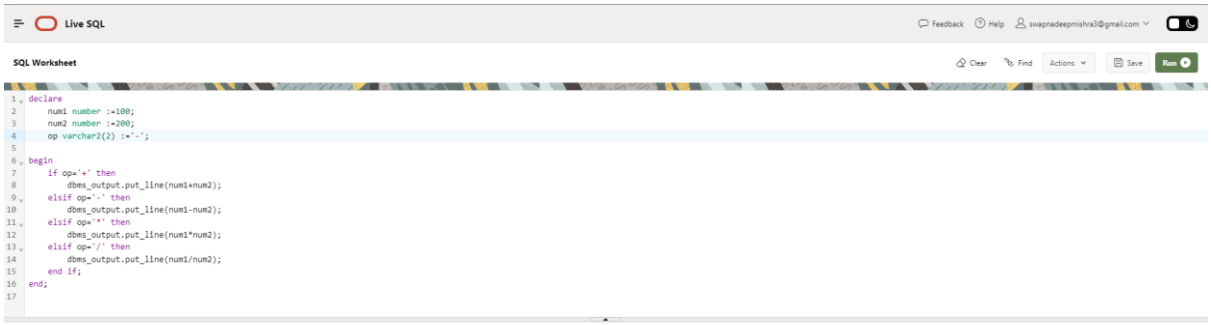
it will calculate and display the result.

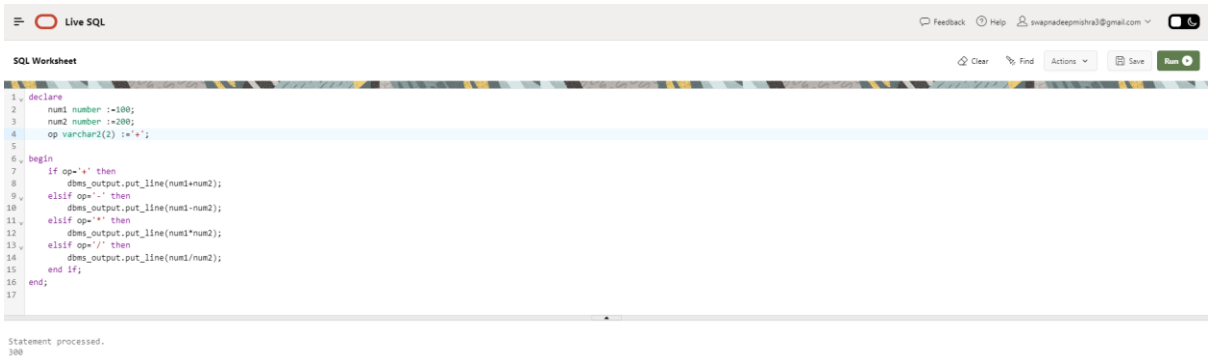
```
declare
        num1 number :=100;
        num2 number :=200;
        op varchar2(2) :='*';

begin
        if op='+' then
                dbms_output.put_line(num1+num2);
        elsif op='-' then
                dbms_output.put_line(num1-num2);
        elsif op='*' then
                dbms_output.put_line(num1*num2);
        elsif op='/' then
                dbms_output.put_line(num1/num2);
        end if;
end;
```



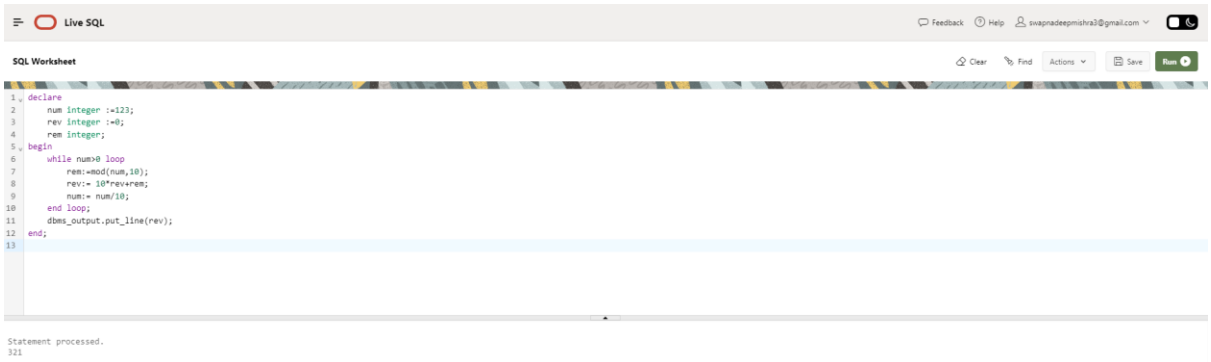






5) Write a PL/SQL code block to display a number in a reverse way.

```
declare
        num integer :=123;
        rev integer :=0;
        rem integer;
begin
        while num>0 loop
                rem:=mod(num,10);
                rev:= 10*rev+rem;
                num:= num/10;
        end loop;
        dbms_output.put_line(rev);
end;
```

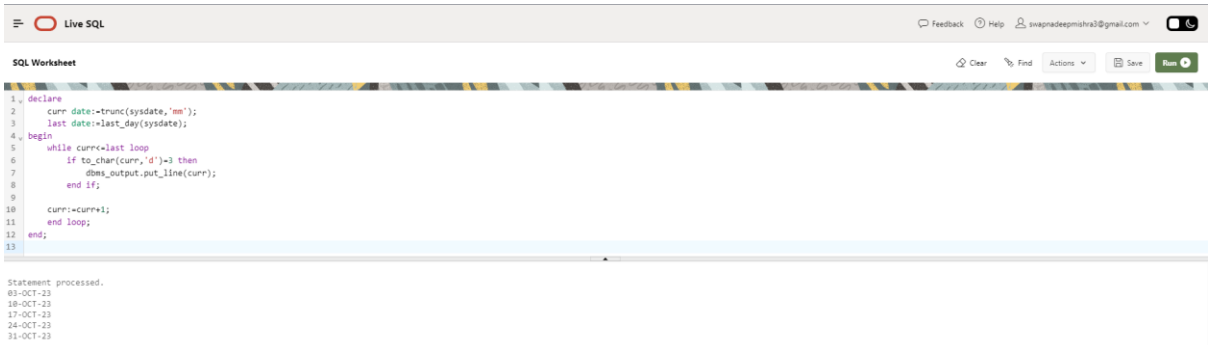


6) Write a PL/SQL block to display the dates of this month which are Tuesday.

```
declare
          curr date:=trunc(sysdate,'mm');
          last date:=last_day(sysdate);
begin
          while curr<=last loop
                    if to_char(curr,'d')=3 then
                              dbms_output.put_line(curr);
```

```
                end if;

        curr:=curr+1;
        end loop;
end;
```



7) Write a program in PL/SQL to print the prime numbers between 1 to 50.

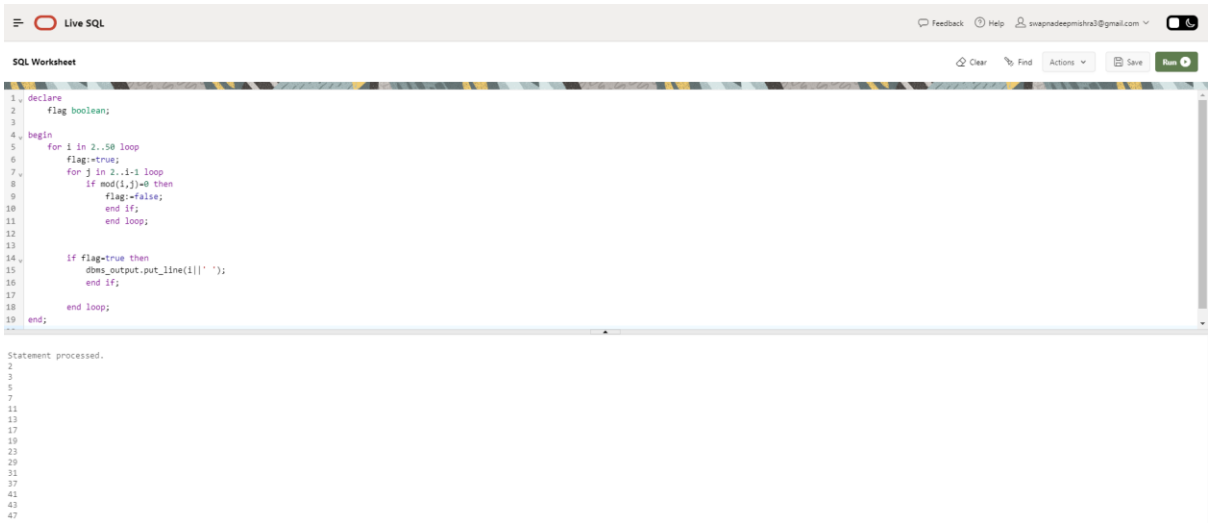
```
declare
    flag boolean;

begin
        for i in 2..50 loop
                flag:=true;
                for j in 2..i-1 loop
                        if mod(i,j)=0 then
                                flag:=false;
                                end if;
                                end loop;

                if flag=true then
                        dbms_output.put_line(i||' ');
                        end if;

                end loop;
```

```
end;
```



8) Write a program in PL/SQL to print the sum of digits of a number [eg: 635=14].

```
declare
        num integer :=14567;
        res integer :=0;
        rem integer;
begin
        while num>0 loop
                rem:=mod(num,10);
                res:=res+rem;
                num:=trunc(num/10);
        end loop;

        dbms_output.put_line(res);
end;
```