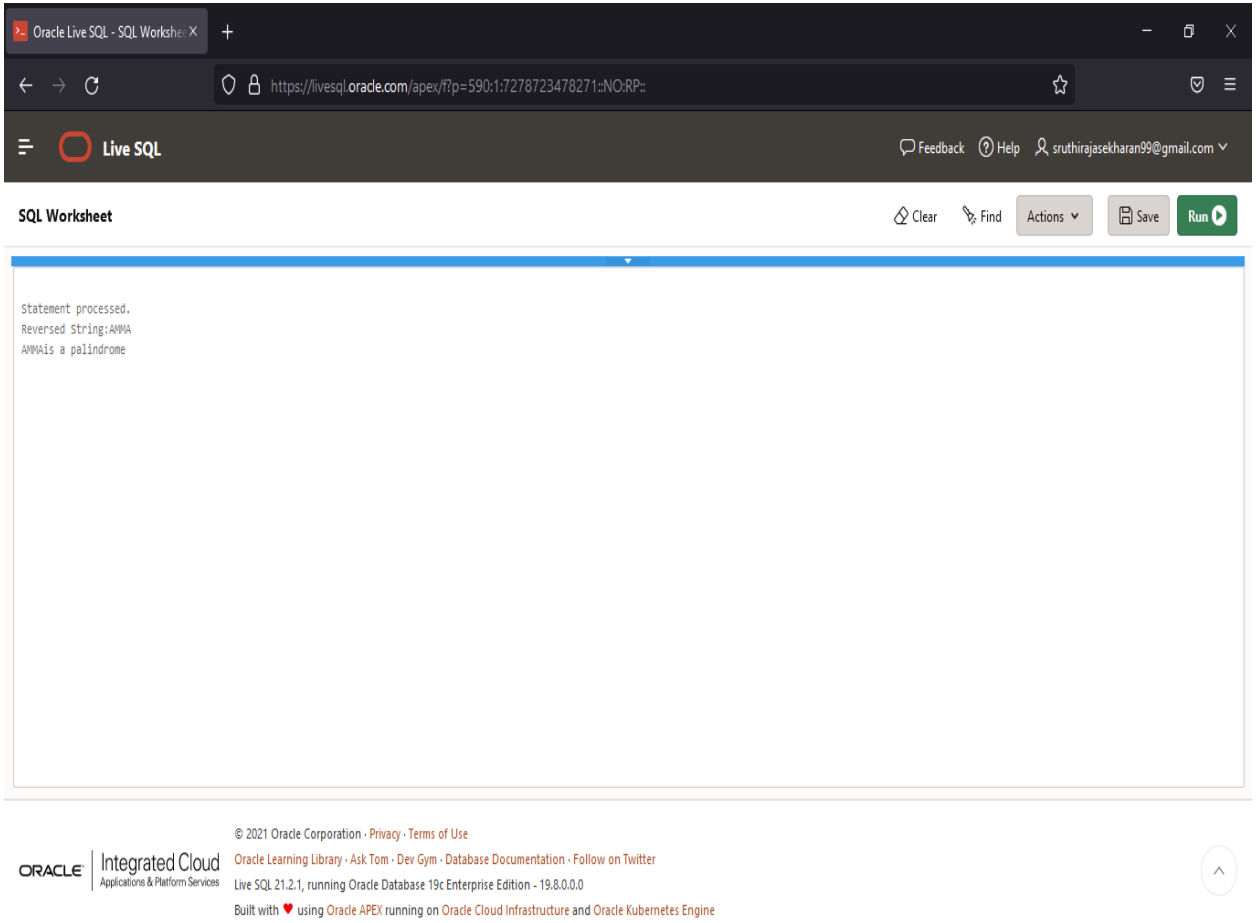
1) Write a PL/SQL code to accept the text and reverse the given text. Check the Text is palindrome or not.

PROGRAM CODE:

```
DECLARE
a VARCHAR(15):='AMMA';
b VARCHAR(15);
n NUMBER;
BEGIN
n:=LENGTH(a);
FOR i IN REVERSE 1..n
LOOP
b:=b || SUBSTR(a,I,1);
END LOOP;
DBMS_OUTPUT.PUT_LINE('Reversed String:'||b);
n:=INSTR(a,b);
IF n!=1 THEN
DBMS_OUTPUT.PUT_LINE(b ||'is not a palindrome’);
ELSE
DBMS_OUTPUT.PUT_LINE(b ||'is a palindrome’);
END IF;
END;
```

OUTPUT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https://livesql.oracle.com/apex/f?p=590:1:7278723478271::NO:RP::
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SQL Worksheet
Clear
Find
Actions
Save
Run
Statement processed.
Reversed String:AMMA
AMMAis a palindrome
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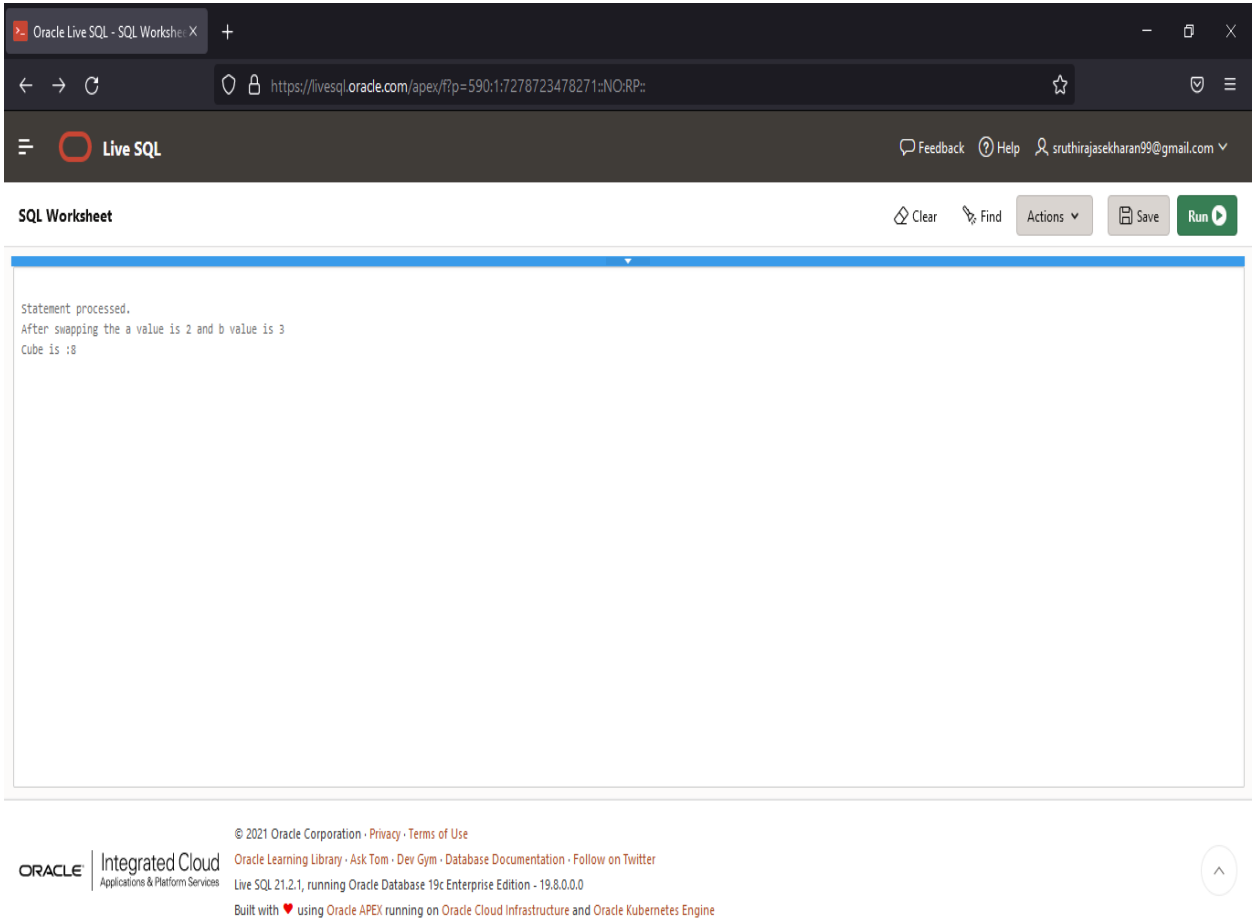
2) Write a program to read two numbers; If the first no > 2nd no, then swap the Numbers; if the first number is an odd number, then find its cube; if first no < 2nd no then raise it to its power; if both the numbers are equal, then find its Sqrt.

PROGRAMCODE

```
DECLARE
a INTEGER:=3;
b INTEGER:=2;
temp INTEGER:=0;
c INTEGER;
cube INTEGER;
BEGIN
IF a > b THEN
temp:=a;
a:=b;
b:=temp;
DBMS_OUTPUT.PUT_LINE('After swapping the a value is '||a ||' and b value is '||b);
IF MOD(b,2) !=0 THEN
cube:=a * a * a;
DBMS_OUTPUT.PUT_LINE('Cube is :'||cube);
ELSE
DBMS_OUTPUT.PUT_LINE('first number is even');
```

```
END IF;
 ELSIF a < b THEN
c:=a **b;
DBMS_OUTPUT.PUT_LINE('Power is :'||c);
ELSIF a=b THEN
DBMS_OUTPUT.PUT_LINE('Square root of a is :'||(SQRT(a)));
DBMS_OUTPUT.PUT_LINE('Square root of b is :'||(SQRT(b)));
END IF;
END;
```

OUTPUT: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SQL Worksheet
Clear
Find
Actions
Save
Run
Statement processed.
After swapping the a value is 2 and b value is 3
Cube is :8
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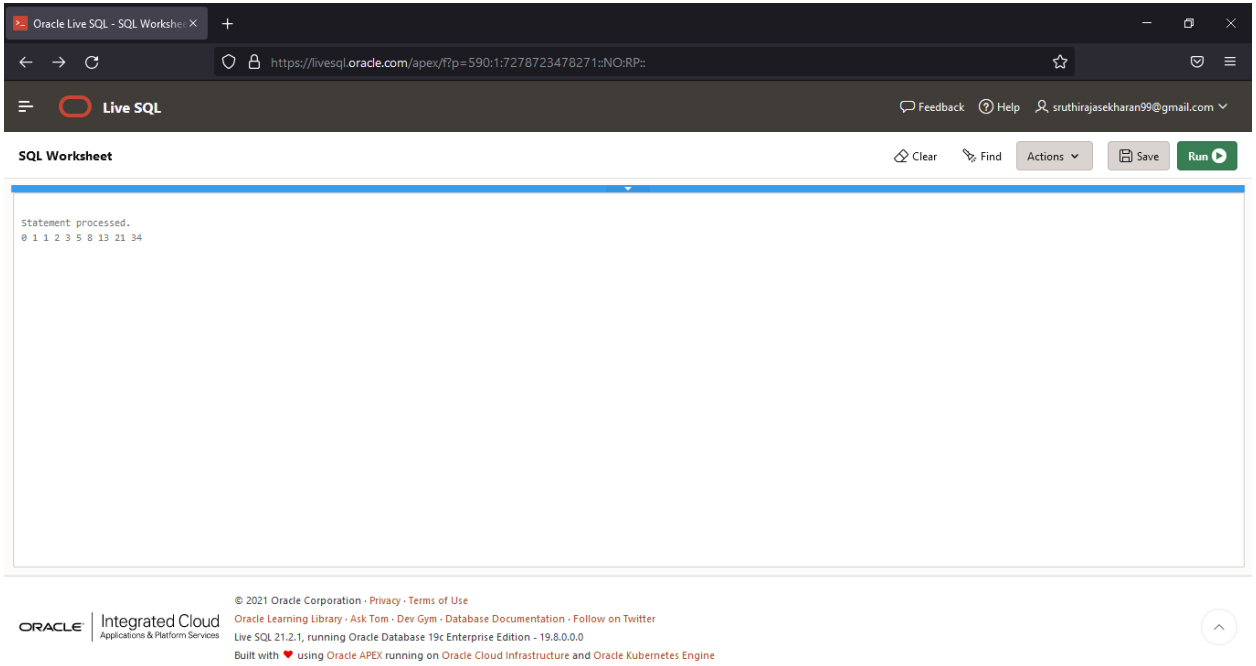
3) Write a program to generate first 10 terms of the Fibonacci series

PROGRAM CODE:

```
DECLARE
a NUMBER:=0;
b NUMBER:=1;
c NUMBER;
BEGIN
DBMS_OUTPUT.PUT(a|| ' '||b||' ');

FOR i IN 3.. 10
LOOP
c:=a+b;
DBMS_OUTPUT.PUT(c||' ');
a:=b;
b:=c;
END LOOP;
DBMS_OUTPUT.PUT_LINE(' ');
END;
```

OUTPUT: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SQL Worksheet
Clear
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Save
Run
Statement processed.
0 1 1 2 3 5 8 13 21 34
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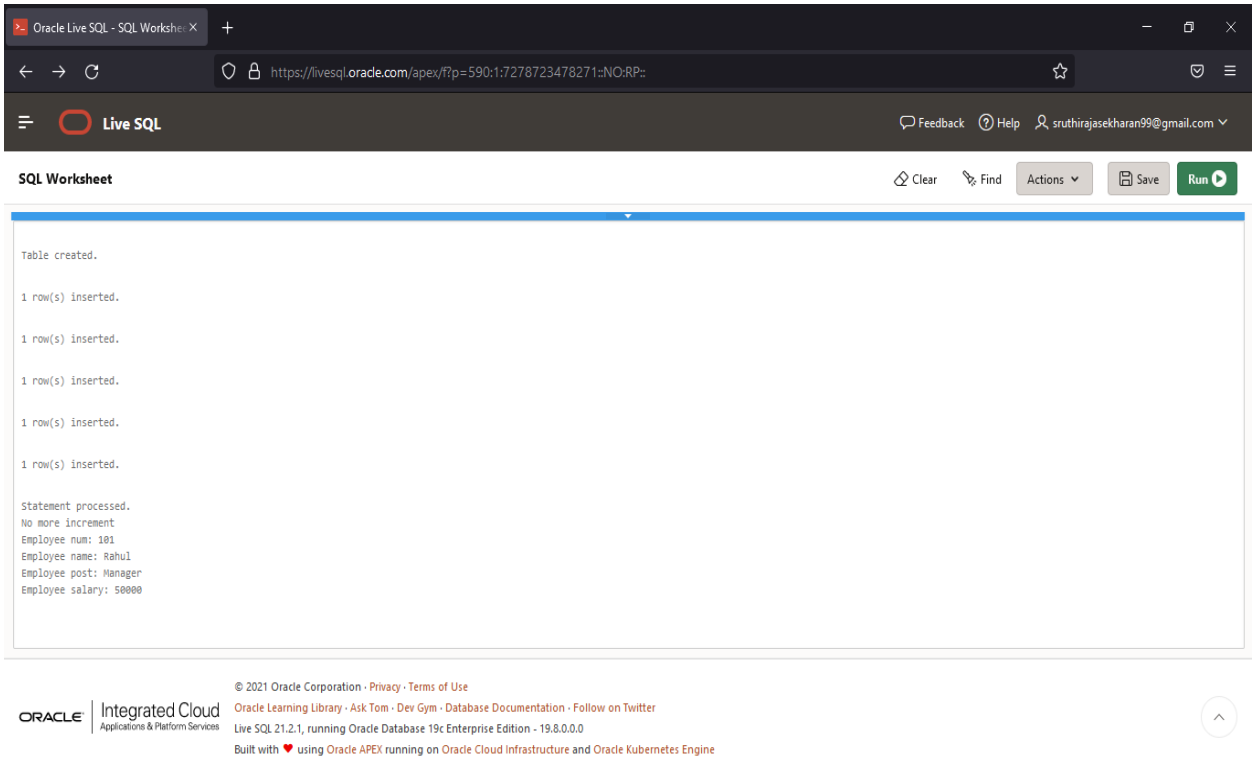
4) Write a PL/SQL program to find the salary of an employee in the EMP table (Get the empno from the user). Find the employee drawing minimum salary. If the minimum salary is less than 7500, then give an increment of 15%. Also create an emp %rowtype record. Accept the empno from the user, and display all the information about the employee

PROGRAM CODE

```
create table employee(emp_no int,emp_name varchar(20),emp_post
varchar(20),emp_salary decimal(10,2));
insert into employee values(100,'Ammu','Sales',7000);

insert into employee values(101,'Rahul','Manager',50000);

insert into employee values(102,'Appu','Accountant',15000);

insert into employee values(103,'Sreekutty','HR',30000);

insert into employee values(104,'Anju','Accountant',15000);

Declare
empno employee.emp_no%type;
salary employee.emp_salary%type;
emp_rec employee%rowtype;
begin
```

```
empno:=101;
select emp_salary into salary from employee where emp_no=empno;
if salary<7500 then
update employe set emp_salary=emp_salary * 15/100 where
emp_no=empno;
else
dbms_output.put_line('No more increment');
end if;
select * into emp_rec from employee where emp_no=empno;
dbms_output.put_line('Employee num: '||emp_rec.emp_no);
dbms_output.put_line('Employee name: '||emp_rec.emp_name);
dbms_output.put_line('Employee post: '||emp_rec.emp_post);
dbms_output.put_line('Employee salary: '||emp_rec.emp_salary);
end
```

OUTPUT:

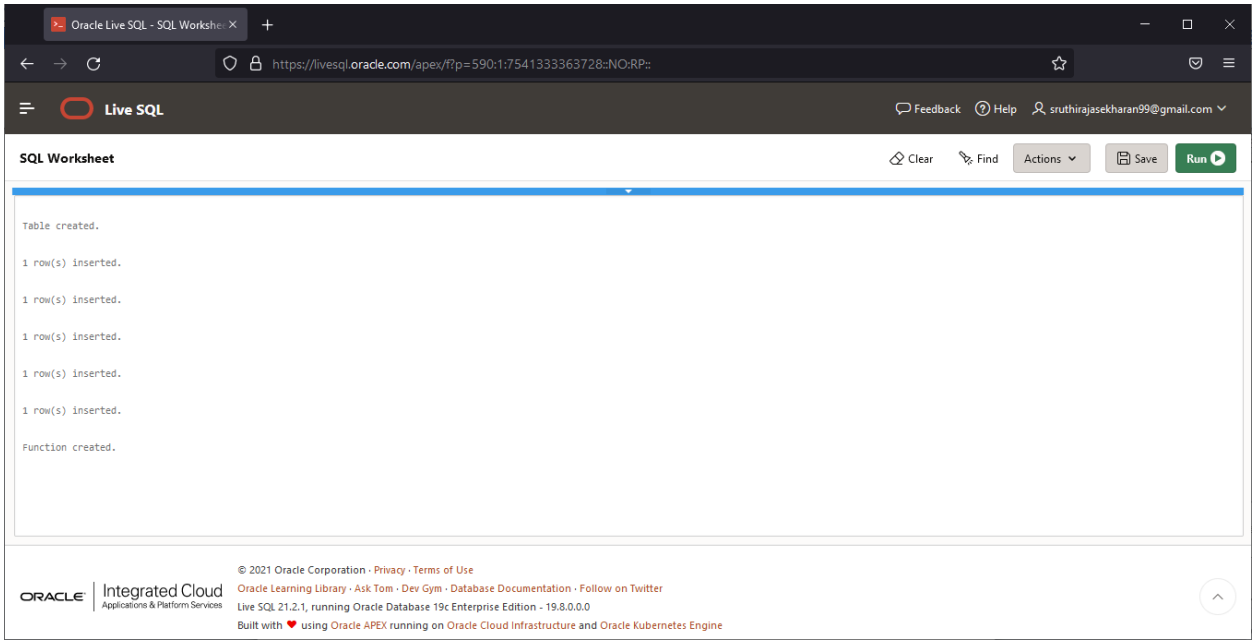


5) Write a PL/SQL function to find the total strength of students present in different classes of the MCA department using the table Class(ClassId, ClassName, Strength

PROGRAM CODE:

```
create table class(class_id int,class_name varchar(20),class_strength int);
 insert into class values(100,'MCA',60);
insert into class values(101,'BCA',30);
 insert into class values(102,'MCA',30);
 insert into class values(103,'BCA',30);
 insert into class values(104,'MCA',60);
CREATE OR REPLACE FUNCTION total_strength
RETURN NUMBER  IS
total NUMBER(5):=0;
BEGIN
SELECT sum(class_strength) INTO total FROM class WHERE
class_name='MCA';
RETURN total;
END;
DECLARE
c NUMBER(5);
BEGIN
c:=total_strength();
DBMS_OUTPUT.PUT_LINE('Total students in MCA department is:'||c);
END;
```

OUTPUT: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SQL Worksheet
Clear
Find
Actions
Save
Run
Table created.
1 row(s) inserted.
1 row(s) inserted.
1 row(s) inserted.
1 row(s) inserted.
1 row(s) inserted.
Function created.
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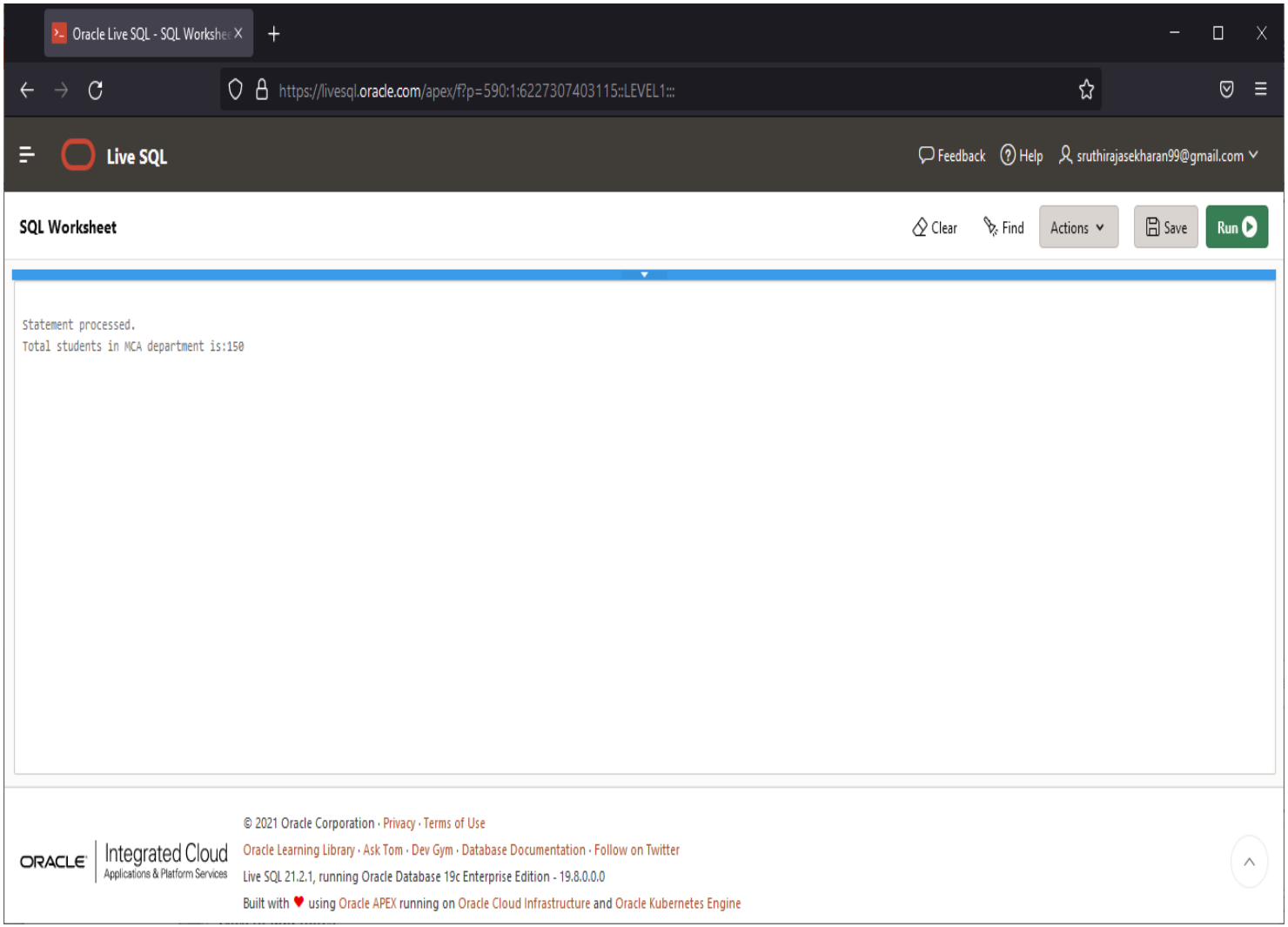
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SQL Worksheet
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Statement processed.
Total students in MCA department is:150
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