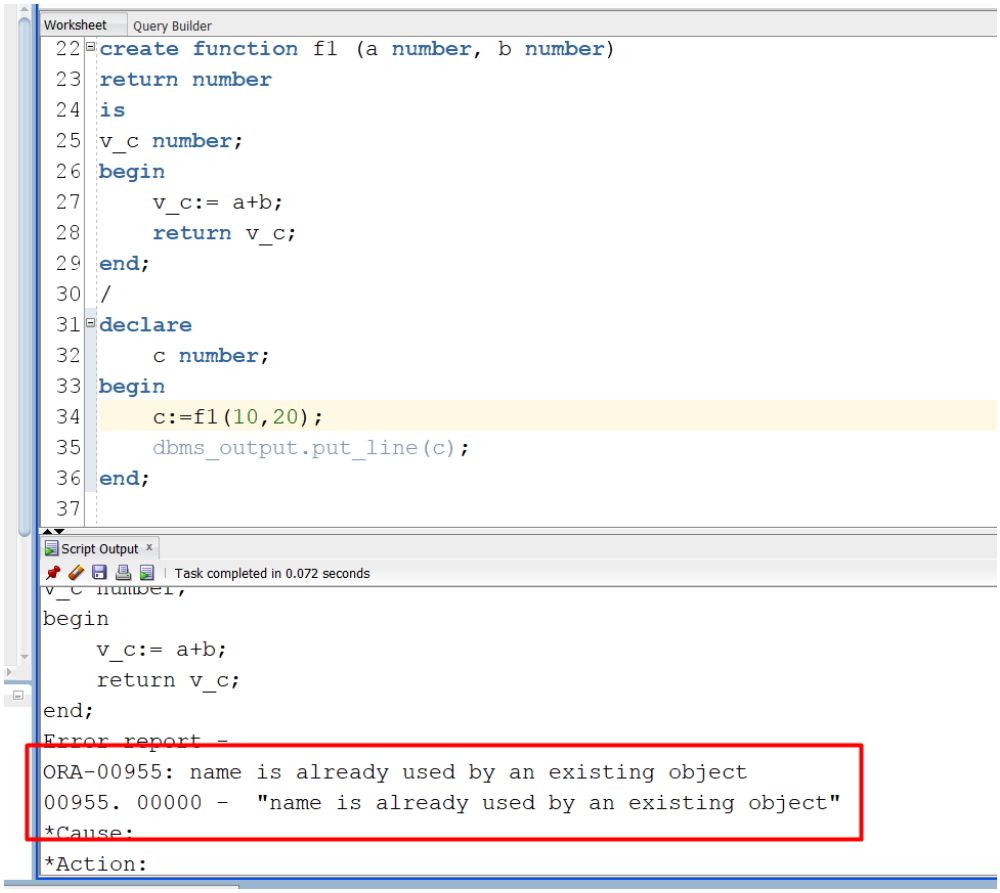
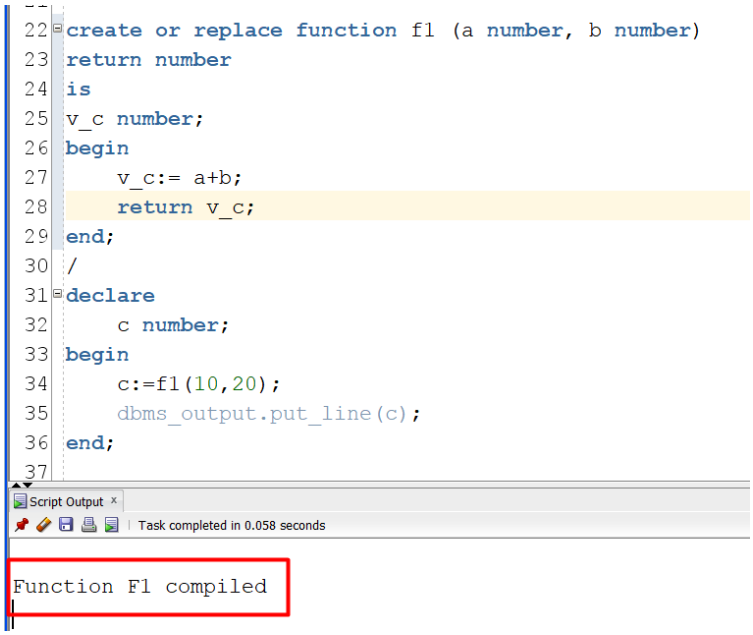
Functions

1. Create a function with already existing name without using replace



```
Worksheet  Query Builder
22 create function f1 (a number, b number)
23 return number
24 is
25 v_c number;
26 begin
27     v_c:= a+b;
28     return v_c;
29 end;
30 /
31 declare
32     c number;
33 begin
34     c:=f1(10,20);
35     dbms_output.put_line(c);
36 end;
37

Script Output
Task completed in 0.072 seconds

v_c number;
begin
    v_c:= a+b;
    return v_c;
end;
Error report -
ORA-00955: name is already used by an existing object
00955. 00000 -  "name is already used by an existing object"
*Cause:
*Action:
```

2. Create a function with already existing name using replace



```
22 create or replace function f1 (a number, b number)
23 return number
24 is
25 v_c number;
26 begin
27     v_c:= a+b;
28     return v_c;
29 end;
30 /
31 declare
32     c number;
33 begin
34     c:=f1(10,20);
35     dbms_output.put_line(c);
36 end;
37

Script Output
Task completed in 0.058 seconds

Function F1 compiled
```

.3. Write a pl sql program using cursor to fetch all employee details,

and load them into a temp table(only unique values)

Worksheet Query Builder

```
set serveroutput on;
/* Write a pl sql program using cursor to fetch all employee details,
and load them into a temp table(only unique values)
*/
declare
    cursor emp_details is
    select e.emp_id,e.emp_name,e.dob,e.hiredate,e.salary,
           d.dept_id, d.dept_name,
           j.job_id,j.job_name,
           a.assignment_id,a.start_date,a.end_date
    from emp e, dept d, job j, emp_assignment a
    where e.emp_id = a.emp_id
    and d.dept_id = j.dept_id
    and a.job_id = j.job_id;
    e_counter number;
    d_counter number;
    j_counter number;
begin
    for i in emp_details
    loop

        select count(*) into e_counter from emp1 where emp_id = i.emp_id;
        if e_counter = 0 then
            insert into emp1 (emp_id, emp_name, DoB, hiredate, salary) values
            (i.emp_id, i.emp_name, i.DoB, i.hiredate, i.salary);
         else
            dbms_output.put_line('Data Allready Exist in the table');
         end if;

         select count(*) into d_counter from dept1 where dept_id = i.dept_id;
         if d_counter = 0 then
            insert into dept1 (dept_id,dept_name) values
            (i.dept_id, i.dept_name);
         else
            dbms_output.put_line('Data Allready Exist in the table');
         end if;
         select count(*) into j_counter from job1 where job_id = i.job_id;
         if j_counter = 0 then
            insert into job1 (job_id,job_name,dept_id) values
            (i.job_id, i.job_name, i.dept_id);
         else
            dbms_output.put_line('Data Allready Exist in the table');
         end if;
     end loop;
end;
```

Script Output | Task completed in 0.041 seconds

```
Data Allready Exist in the table
Data Allready Exist in the table
Data Allready Exist in the table
Data Allready Exist in the table
Data Allready Exist in the table
Data Allready Exist in the table
Data Allready Exist in the table
Data Allready Exist in the table
Data Allready Exist in the table
Data Allready Exist in the table


PL/SQL procedure successfully completed.
```

```
/
select * from empl;
select * from dept1;
select * from job1;
```

Script Output | Query Result | Query Result 1 | Query Result 2

SQL | All Rows Fetched: 10 in 0.001 seconds

	EMP_ID	EMP_NAME	DOB	HIREDATE	SALARY
1	1	Rajesh	11-10-99	05-06-23	10000
2	2	Naveen	19-02-98	24-07-23	12000
3	3	Rakesh	21-06-00	29-08-23	13000
4	4	Sathish	01-01-97	03-09-23	15000
5	5	Praveen	16-12-99	24-10-23	18000
6	6	Sai	08-11-98	26-12-23	20000
7	7	Raja	05-04-96	16-03-23	10000
8	8	Anil	09-10-97	21-02-23	19000
9	9	Sathya	13-11-98	11-01-23	25000
10	10	Ramesh	11-07-99	05-06-23	20000

```
/
select * from empl;
select * from dept1;
select * from job1;
```

Script Output | Query Result | Query Result 1

SQL | All Rows Fetched: 4 in 0.001 seconds

	DEPT_ID	DEPT_NAME
1	50	ACCOUNTING
2	20	OPERATIONS
3	30	SALES
4	40	FINANCE

```
select * from empl;
select * from dept1;
select * from job1;
```

Script Output | Query Result | Query Result 1 | Query Re

SQL | All Rows Fetched: 6 in 0.001 seconds

	JOB_ID	JOB_NAME	DEPT_ID
1	101	Manager	50
2	102	Cleark	20
3	103	Asst Manager	30
4	104	Developer	20
5	105	Tester	50
6	106	CEO	40

4 Write a pl sql program using cursor and function to fetch all employee details, and load them into a temp table(only unique values)

Worksheet | Query Builder

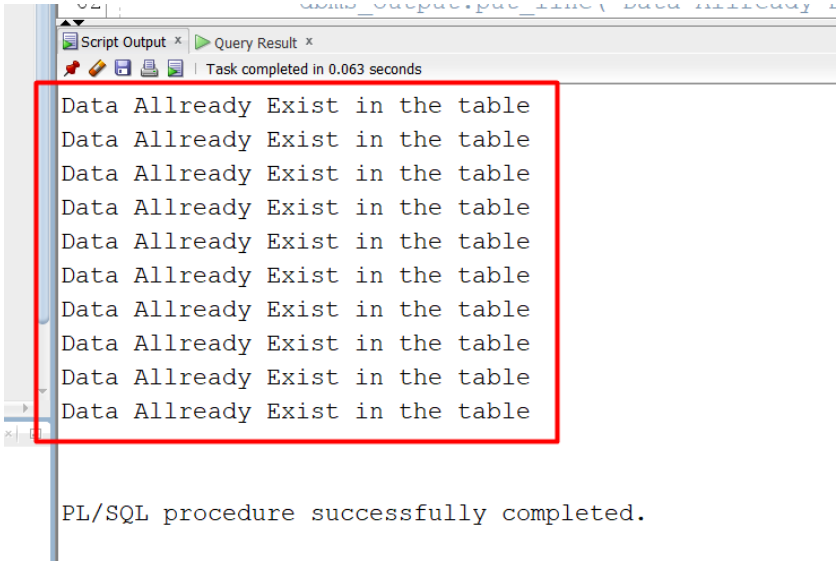
```
create or replace function emp_count(a number)
return number
is emp_counter number;
begin
    select count(*) into emp_counter from empl where emp_id = a;
    return emp_counter;
end;
/
create or replace function dept_count(b number)
return number
is dept_counter number;
begin
    select count(*) into dept_counter from dept1 where dept_id = b;
    return dept_counter;
end;
/
create or replace function job_count(c number)
return number
is job_counter number;
begin
    select count(*) into job_counter from job1 where job_id = c;
    return job_counter;
end;
/
```

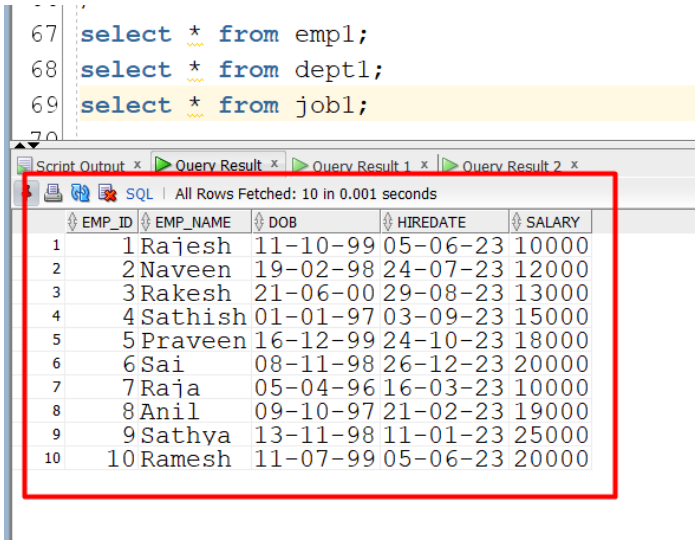
Worksheet Query Builder

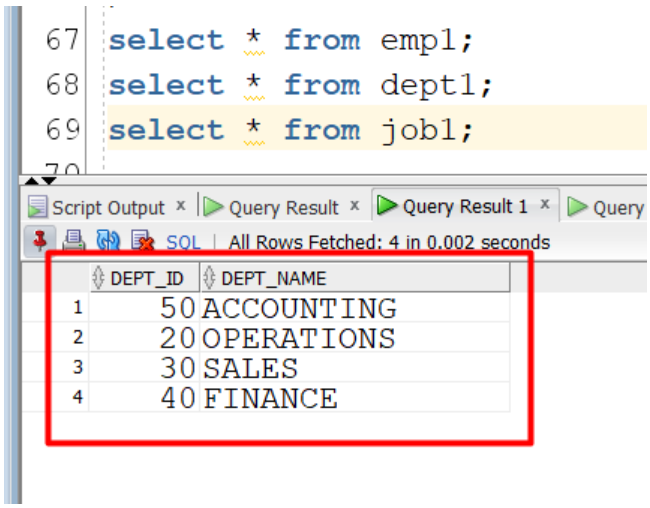
```
declare
    cursor emp_details is
    select e.emp_id,e.emp_name,e.dob,e.hiredate,e.salary,
           d.dept_id, d.dept_name,
           j.job_id,j.job_name,
           a.assignment_id,a.start_date,a.end_date
    from emp e, dept d, job j, emp_assignment a
    where e.emp_id = a.emp_id
    and d.dept_id = j.dept_id
    and a.job_id = j.job_id;

begin
    for i in emp_details
    loop
        if emp_count(i.emp_id) = 0 then
            insert into emp1 (emp_id, emp_name, DoB, hiredate, salary) values
                (i.emp_id, i.emp_name, i.DoB, i.hiredate, i.salary);
        else
            dbms_output.put_line('Data Allready Exist in the table');
        end if;

        if dept_count(i.dept_id) = 0 then
             insert into dept1 (dept_id,dept_name) values
            (i.dept_id, i.dept_name);
```

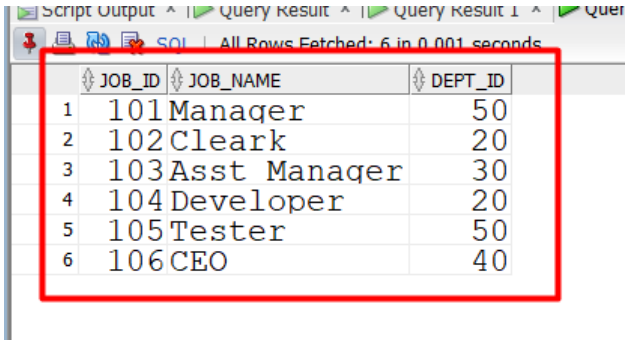
```
            (i.dept_id, i.dept_name);
        else
            dbms_output.put_line('Data Allready Exist in the table');
        end if;

        if job_count(i.job_id) = 0 then
             insert into job1 (job_id,job_name,dept_id) values
            (i.job_id, i.job_name, i.dept_id);
        else
            dbms_output.put_line('Data Allready Exist in the table');
        end if;
    end loop;
end;
/
```

Output:


Script Output
Query Result
Task completed in 0.063 seconds
Data Allready Exist in the table
Data Allready Exist in the table
Data Allready Exist in the table
Data Allready Exist in the table
Data Allready Exist in the table
Data Allready Exist in the table
Data Allready Exist in the table
Data Allready Exist in the table
Data Allready Exist in the table
Data Allready Exist in the table
PL/SQL procedure successfully completed.


select * from emp1;
select * from dept1;
select * from job1;
Script Output
Query Result
Query Result 1
Query Result 2
SQL | All Rows Fetched: 10 in 0.001 seconds
EMP_ID EMP_NAME DOB HIREDATE SALARY
1 Rajesh 11-10-99 05-06-23 10000
2 Naveen 19-02-98 24-07-23 12000
3 Rakesh 21-06-00 29-08-23 13000
4 Sathish 01-01-97 03-09-23 15000
5 Praveen 16-12-99 24-10-23 18000
6 Sai 08-11-98 26-12-23 20000
7 Raja 05-04-96 16-03-23 10000
8 Anil 09-10-97 21-02-23 19000
9 Sathya 13-11-98 11-01-23 25000
10 Ramesh 11-07-99 05-06-23 20000


select * from emp1;
select * from dept1;
select * from job1;
Script Output
Query Result
Query Result 1
Query
SQL | All Rows Fetched: 4 in 0.002 seconds
DEPT_ID DEPT_NAME
50 ACCOUNTING
20 OPERATIONS
30 SALES
40 FINANCE



	JOB_ID	JOB_NAME	DEPT_ID
1	101	Manager	50
2	102	Cleark	20
3	103	Asst Manager	30
4	104	Developer	20
5	105	Tester	50
6	106	CEO	40

5. Write a pl sql program to accept the user input and add the data into the temp table and delete from the base table.

```
declare
    cursor emp_details2 is
    select e.emp_id,e.emp_name,e.dob,e.hiredate,e.salary,
            d.dept_id, d.dept_name,
            j.job_id,j.job_name,
            a.assignment_id,a.start_date,a.end_date
    from emp e, dept d, job j, emp_assignment a
    where e.emp_id = a.emp_id
    and d.dept_id = j.dept_id
    and a.job_id = j.job_id
    and e.emp_id=:emp_id;

    cursor emp_details3 is
    select e.emp_id,e.emp_name,e.dob,e.hiredate,e.salary,
            d.dept_id, d.dept_name,
            j.job_id,j.job_name,
            a.assignment_id,a.start_date,a.end_date
    from emp e, dept d, job j, emp_assignment a
    where e.emp_id = a.emp_id
    and d.dept_id = j.dept_id
    and a.job_id = j.job_id
    and d.dept_id =:dept_id;

    e_counter number;
    d_counter number;
```

```
begin
    for i in emp_details2
    loop
        select count(*) into e_counter from emp2 where emp_id = i.emp_id;
        if e_counter = 0 then
            insert into emp2 (emp_id,emp_name,dob,hiredate,salary)
            values(i.emp_id,i.emp_name,i.dob,i.hiredate,i.salary);
            delete from emp where emp_id = i.emp_id;
        elsif e_counter > 0 then
            dbms_output.put_line('Date already exist in the table');
        end if;
    end loop;

    for j in emp_details3
        loop
            select count(*) into d_counter from dept2 where dept_id = j.dept_id;
        if d_counter = 0 then
            insert into dept2 (dept_id,dept_name) values (j.dept_id, j.dept_name);
            delete from dept where dept_id = j.dept_id;
        else
            dbms_output.put_line('Date already exist in the table');
        end if;
    end loop;
end;
```

Script Output

Task completed in 0.054 seconds

```
Date already exist in the table
Date already exist in the table


PL/SQL procedure successfully completed.
```

```
select * from emp2;
select * from emp;
select * from dept;
select * from dept2;
```

APEX : select * from emp2

Script Output | Query Result | Query Result 1 | Query Result 2 | Query Result 3

All Rows Fetched: 3 in 0.003 seconds

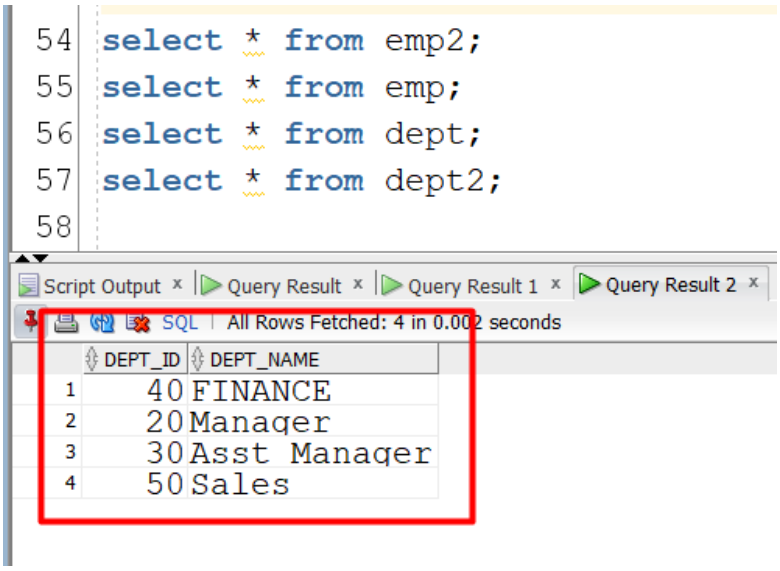
	EMP_ID	EMP_NAME	DOB	HIREDATE	SALARY
1	5	Praveen	16-12-99	24-10-23	18000
2	4	Sathish	01-01-97	03-09-23	15000
3	10	Ramesh	11-07-99	05-06-23	20000

```
54 select * from emp2;
55 select * from emp;
56 select * from dept;
57 select * from dept2;
58
```

Script Output | Query Result | Query Result 1 | Query Result 2 | Query Result 3

SQL | All Rows Fetched: 7 in 0.002 seconds

	EMP_ID	EMP_NAME	DOB	HIREDATE	SALARY
1	1	Rajesh	11-10-99	05-06-23	10000
2	2	Naveen	19-02-98	24-07-23	12000
3	3	Rakesh	21-06-00	29-08-23	13000
4	6	Sai	08-11-98	26-12-23	20000
5	7	Raja	05-04-96	16-03-23	10000
6	8	Anil	09-10-97	21-02-23	19000
7	9	Sathya	13-11-98	11-01-23	25000




```
54 select * from emp2;
55 select * from emp;
56 select * from dept;
57 select * from dept2;
58
```

Script Output | Query Result | Query Result 1 | Query Result 2 | Query Result 3

SQL | All Rows Fetched: 3 in 0.001 seconds

	DEPT_ID	DEPT_NAME
1	50	ACCOUNTING
2	20	OPERATIONS
3	30	SALES