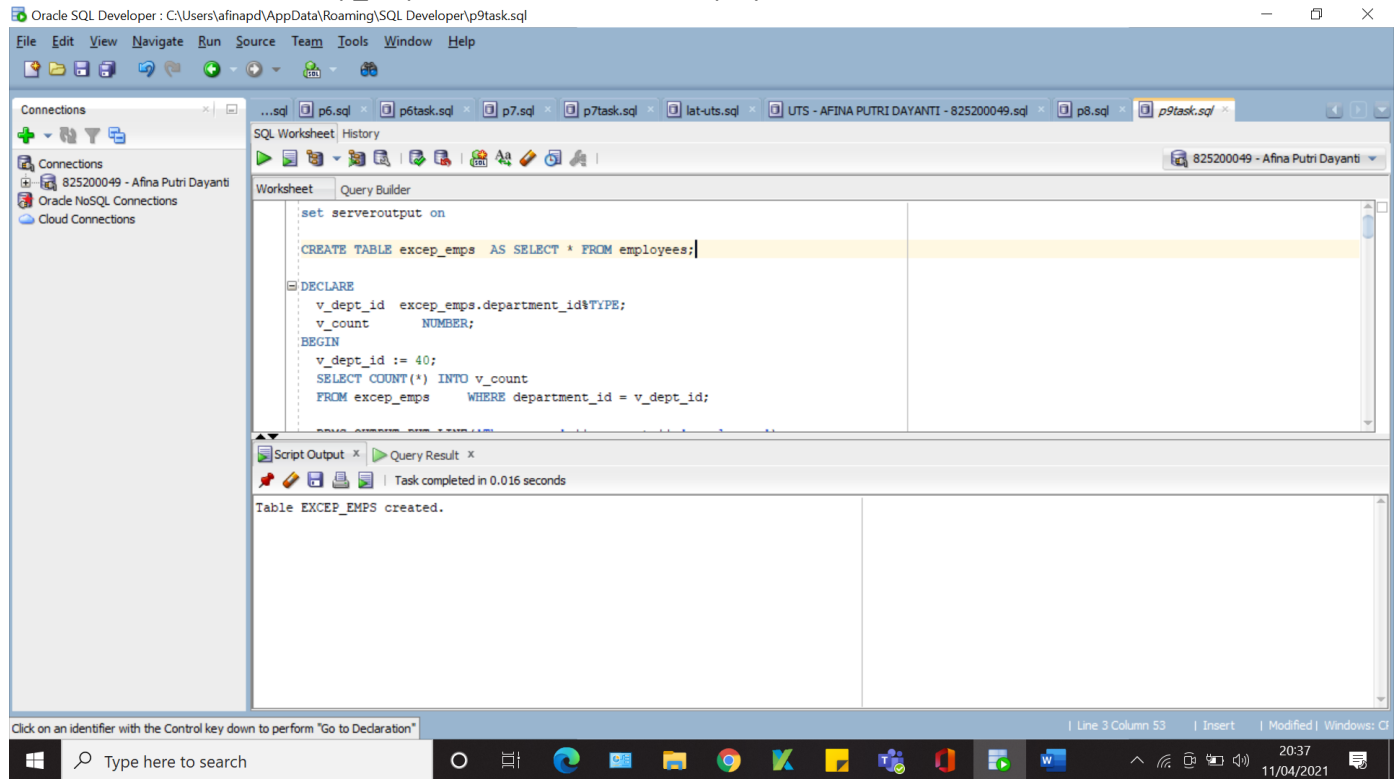


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Latihan soal Exception:

1. CREATE TABLE excep_emps AS SELECT * FROM employees;

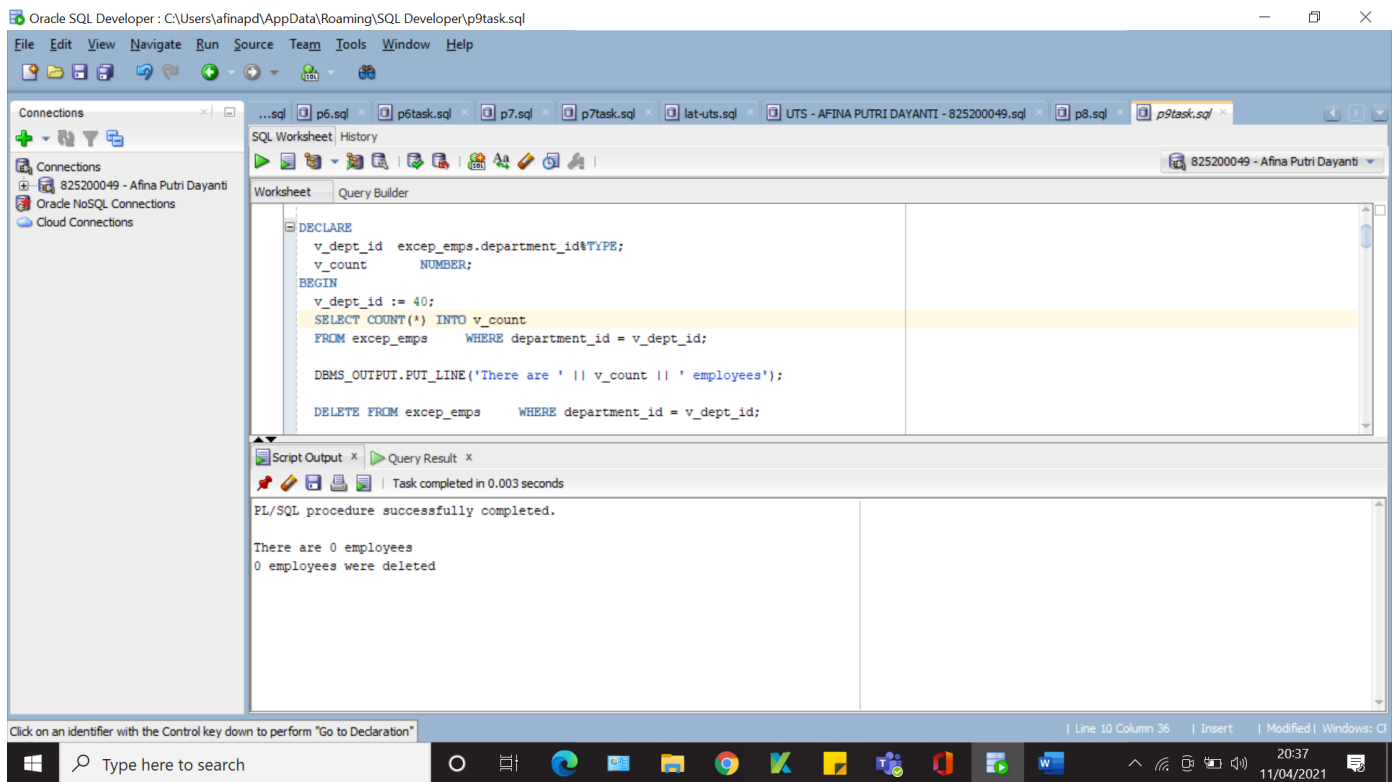


2. Jalankan syntax di bawah ini dan gunakan department_id =40, apa hasilnya dan jelaskan!

```
DECLARE  
  v_dept_id excep_emps.department_id%TYPE;  
  v_count    NUMBER;  
BEGIN  
  v_dept_id := 40;  
  SELECT COUNT(*) INTO v_count  
  FROM excep_emps WHERE department_id = v_dept_id;  
  
  DBMS_OUTPUT.PUT_LINE('There are ' || v_count || ' employees');  
  
  DELETE FROM excep_emps WHERE department_id = v_dept_id;  
  
  DBMS_OUTPUT.PUT_LINE(SQL%ROWCOUNT || ' employees were deleted');  
  ROLLBACK;  
END;
```

Answer : Hasilnya There are 0 employees, 0 employees were deleted. Karena dept_id 40 tidak ada di

table employee sehingga tidak ada yang di delete



- Ubah syntax di atas dengan menambahkan 2 exception, sebuah exception untuk mengatasi jika SELECT menghasilkan 0 baris data, dan sebuah exception untuk jika tidak ada data yang terhapus (DELETED). Deklarasikan EXCEPTION dan RAISE secara explicit (bukan menggunakan RAISE_APPLICATION_ERROR). Test program menggunakan department_id 40.

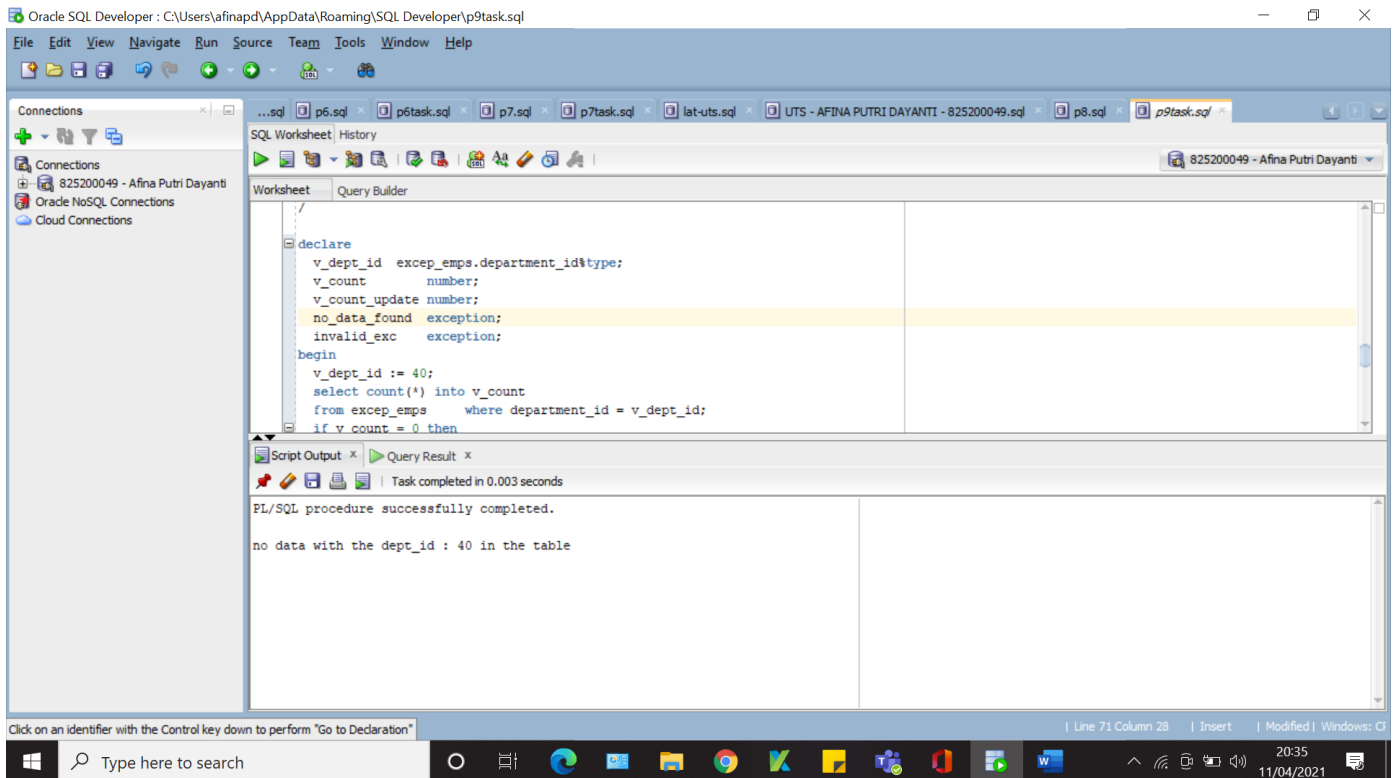
```
declare
  v_dept_id excep_emps.department_id%type;
  v_count    number;
  v_count_update number;
  no_data_found exception;
  invalid_exc exception;
begin
  v_dept_id := 40;
  select count(*) into v_count
  from excep_emps  where department_id = v_dept_id;
  if v_count = 0 then
    raise no_data_found;
  else
    delete from excep_emps  where department_id = v_dept_id;
    select count(*) into v_count_update
    from excep_emps  where department_id = v_dept_id;
    if v_count_update = 0 then
      dbms_output.put_line(v_count || ' employees were deleted');
    else
      raise invalid_exc;
    end if;
  end if;
end;
```

```

end if;
end if;

exception
when no_data_found then
dbms_output.put_line('no data with the dept_id : ' || v_dept_id || ' in the table');
when invalid_exc then
dbms_output.put_line('There is no employee with this dept id that could be deleted');
rollback;
end;

```



4. Modifikasi jawaban no. 3 untuk mengubah exception menggunakan (RAISE_APPLICATION_ERROR).
Gunakan error number -20203 dan -20204.

```

declare
  v_dept_id excep_emps.department_id%type;
  v_count    number;
  v_count_update number;
begin
  v_dept_id := 40;
  select count(*) into v_count
  from excep_emps where department_id = v_dept_id;
  if v_count = 0 then
    raise_application_error(-20203, 'no data with the dept_id : ' || v_dept_id || ' in the
table');
  else
    delete from excep_emps where department_id = v_dept_id;

```

```

select count(*) into v_count_update
from excep_emps where department_id = v_dept_id;
if v_count_update = 0 then
    dbms_output.put_line(v_count || ' employees were deleted');
else
    raise_application_error(-20204, 'There is no employee with this dept id that could be
deleted');
end if;
end if;
rollback;
end;

```

