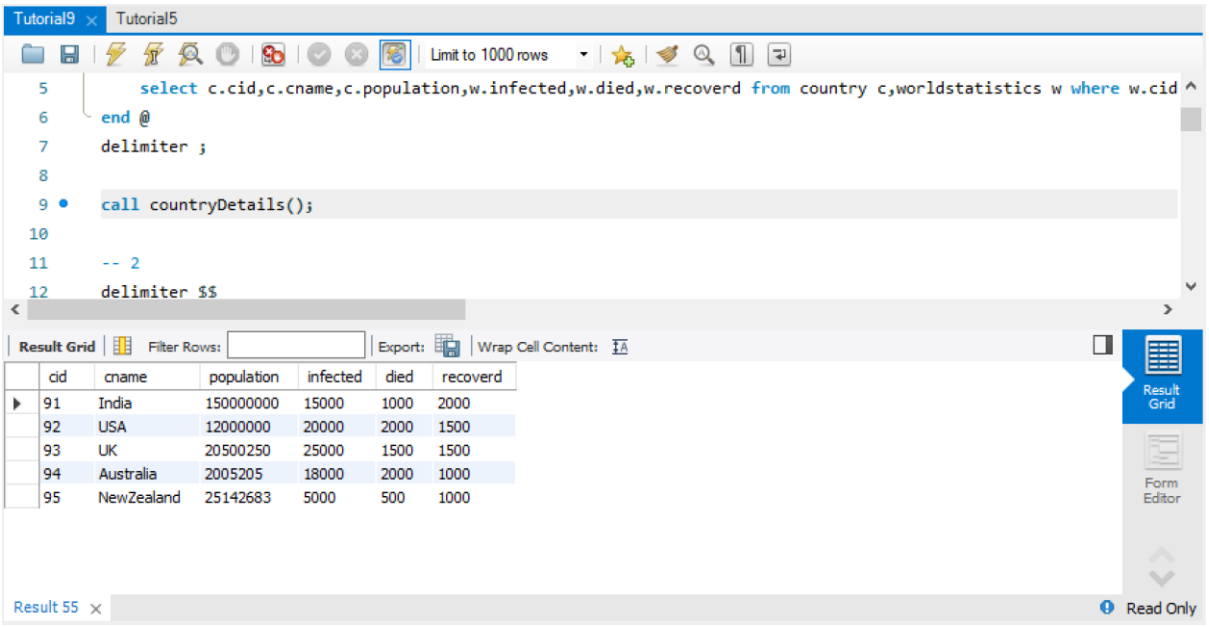
DBMS Tutorial – 9

Implement the following PL/SQL programs on Covid Pandemic Country-wise Database System

1) Create a PL/SQL program to display the details of countries

```
delimiter @
create procedure countryDetails()
begin
        select c.cid,c.cname,c.population,w.infected,w.died,w.recoverd from country
c,worldstatistics w where w.cid=c.cid;
end @
delimiter ;

call countryDetails();
```

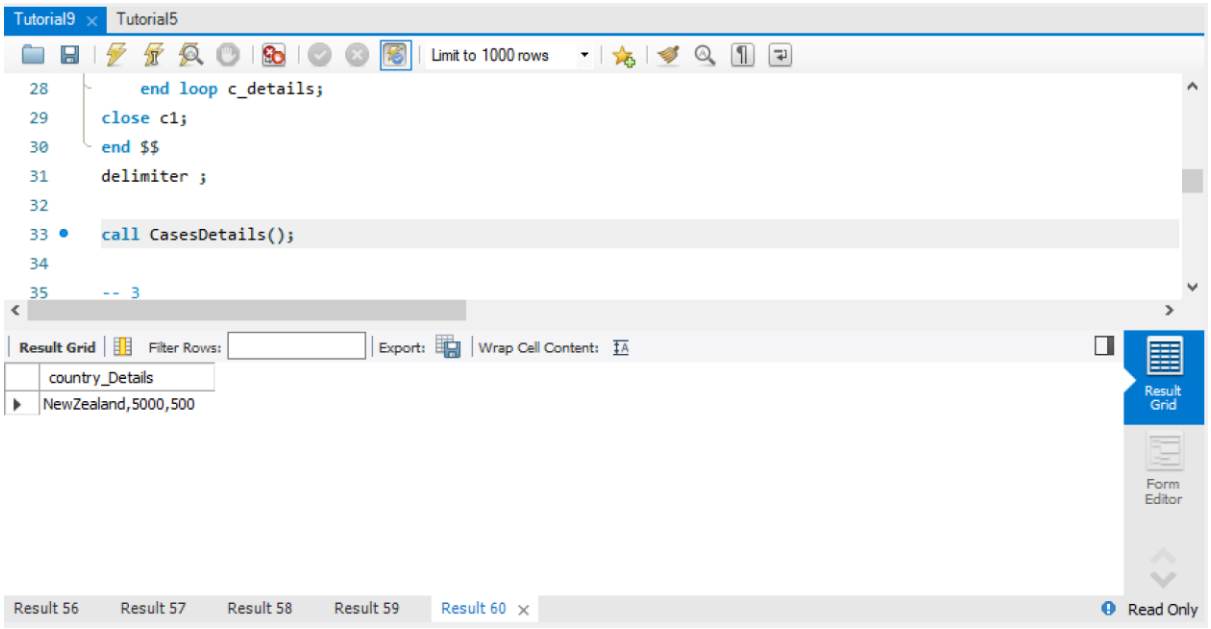


2) Create a Cursor to display corona virus affected countries with no. of cases and death toll

```
delimiter $$
create procedure CasesDetails()
begin
   declare ctyname varchar(20);
   declare cases int;
   declare death int;
   declare c_finished int default 0;
   declare c1 cursor for select cname,infected,died from worldstatistics;
        declare continue handler for not found set c_finished=1;
open c1;
        c_details:loop
                fetch c1 into ctyname,cases,death;
                if c_finished=1 then
```

```
                leave c_details;
                end if;
        select concat(ctyname,',',cases,',',death) as country_Details;
          end loop c_details;
close c1;
end $$
delimiter ;

call CasesDetails();
```

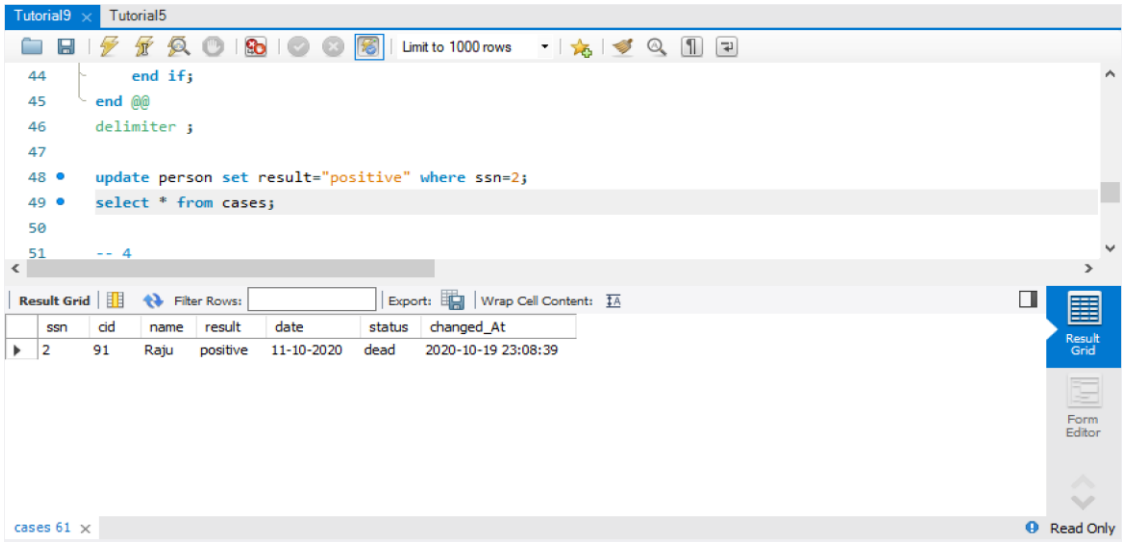


3) Create a trigger to insert patient details into CASES table whenever the person status in PERSON table changes from Negative to Positive.

```
create table cases(ssn int,cid int,name varchar(20),result varchar(20),date varchar(20),status
varchar(20),changed_At TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP);

delimiter @@
create trigger addPatientLog after update on person
for each row
begin
        if OLD.result='Negative' and NEW.result='Positive' then
        insert into cases
values(OLD.ssn,OLD.cid,OLD.name,NEW.result,OLD.date,OLD.status,current_timestamp);
   end if;
end @@
delimiter ;

update person set result="positive" where ssn=2;
select * from cases;
```



4) Create a trigger to store the person details whose status is dead.

```
create table personlog(ssn int,cid int,name varchar(20),result varchar(20),date
varchar(20),status varchar(20),changedAt TIMESTAMP NOT NULL DEFAULT
CURRENT_TIMESTAMP);

delimiter $
create trigger addPersonLog after insert on person
for each row
begin
        if NEW.status = 'dead' then
        insert into personlog
values(NEW.ssn,NEW.cid,NEW.name,NEW.result,NEW.date,NEW.status,current_timestam
p());
   end if;
end $
delimiter ;

insert into person values(13,95,'akhil','positive','12-10-2020','dead');
select * from personlog;
```