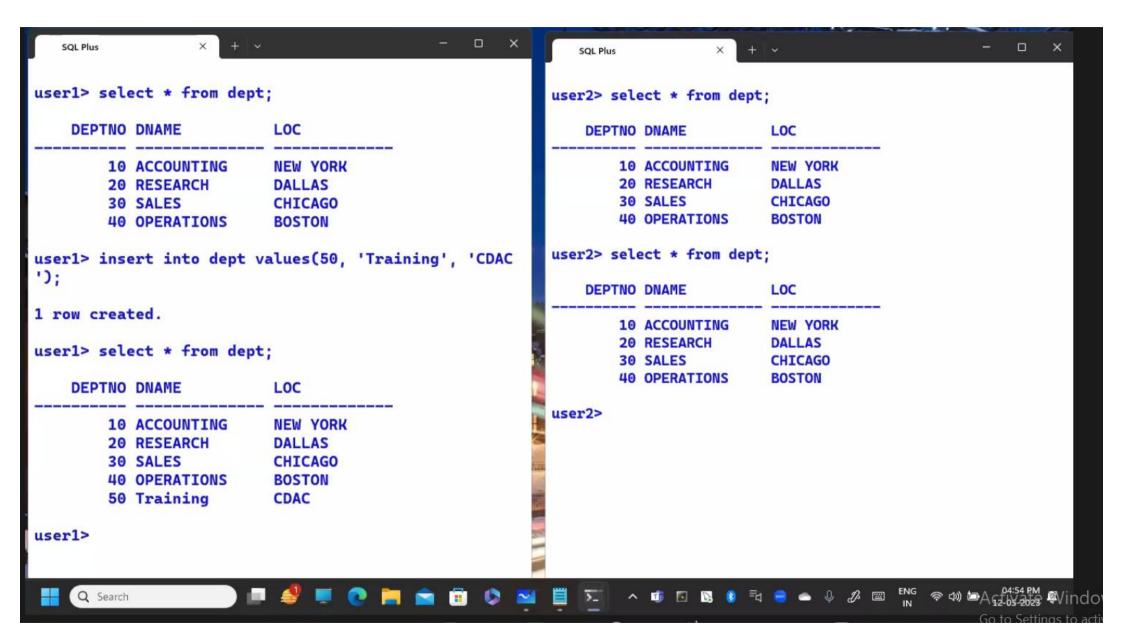
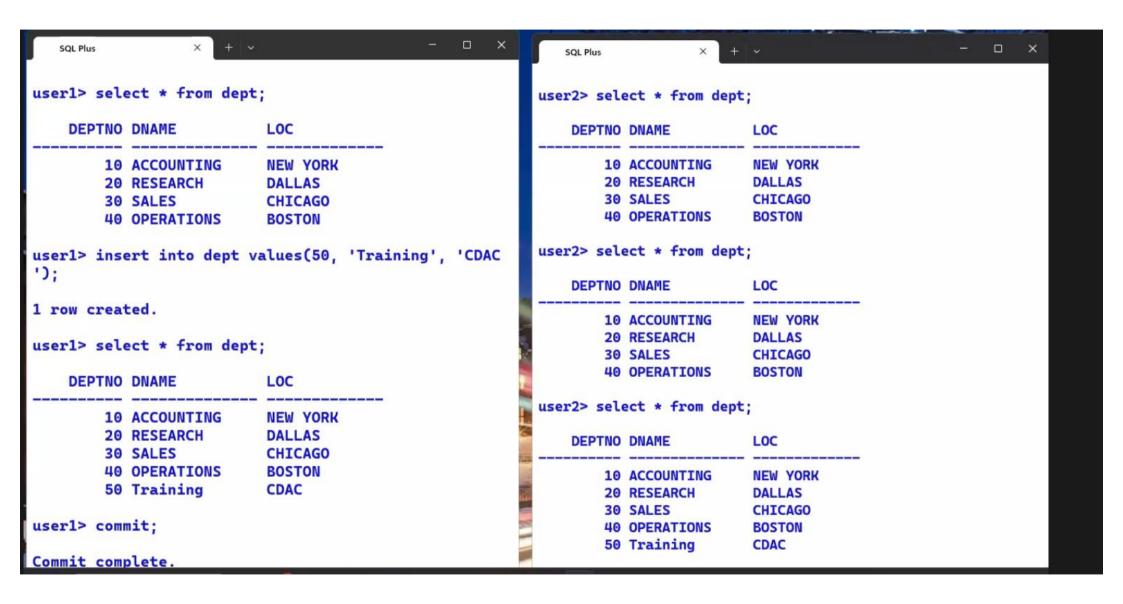
call abc('SCOTT');

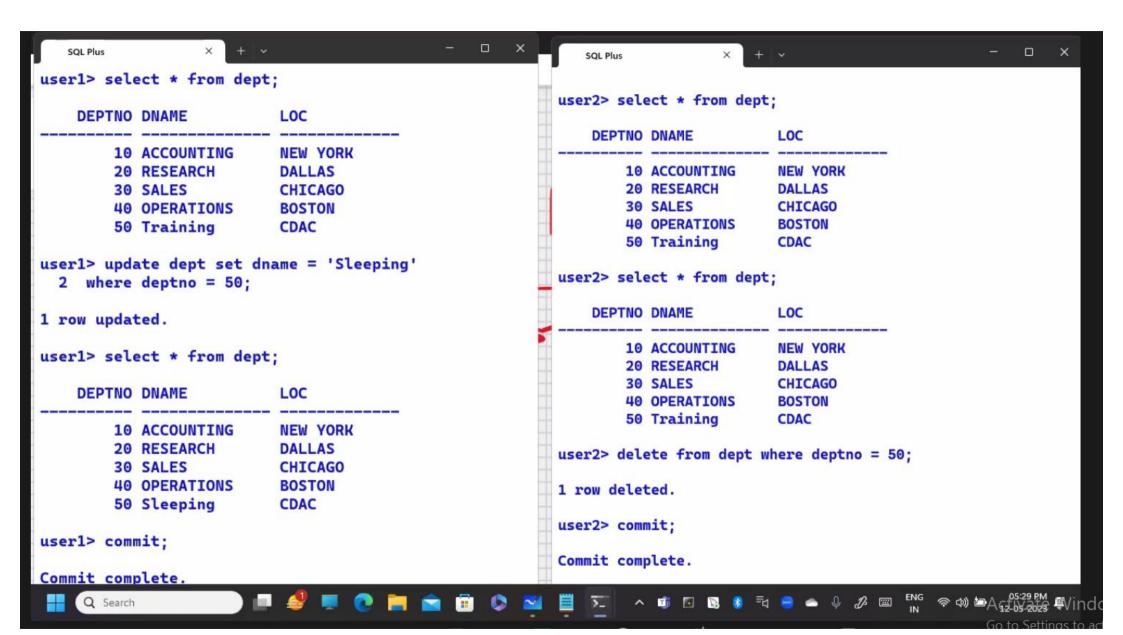
```
DBT.txt
File
  Edit
delimiter //
create procedure abc()
begin
  declare x char(15) default 'KING';
  declare y float default 3000;
  declare z float default 0.4;
  declare hra float;
  set hra = y*z;
   insert into tempp values(y, x);
  insert into tempp values(hra, 'HRA');
end; //
delimiter;
```

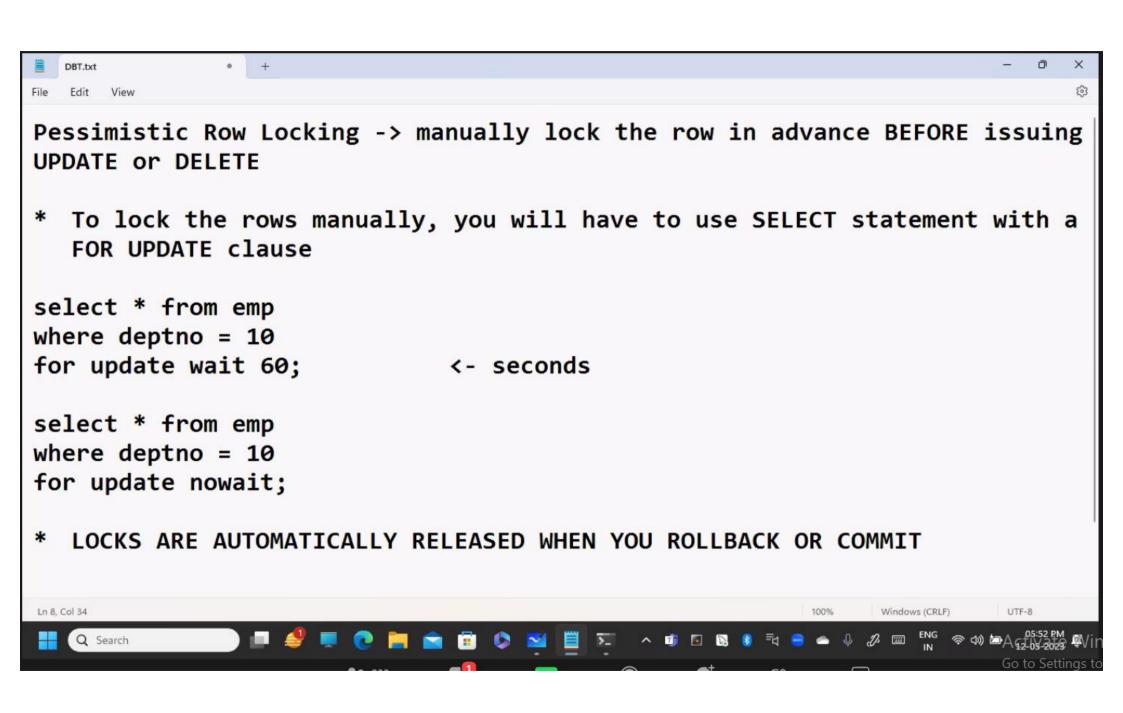
DBT.txt File Edit View select * from emp where deptno in(10,20,30); select * from emp where deptno not in(10,20,30); select * from emp where deptno =any(10,20,30); select * from emp where deptno !=any(10,20,30); select * from emp where deptno >any(10,20,30); select * from emp where deptno \Rightarrow =any(10,20,30); select * from emp where deptno <any(10,20,30); select * from emp where deptno \leq =any(10,20,30); Ln 23, Col 15









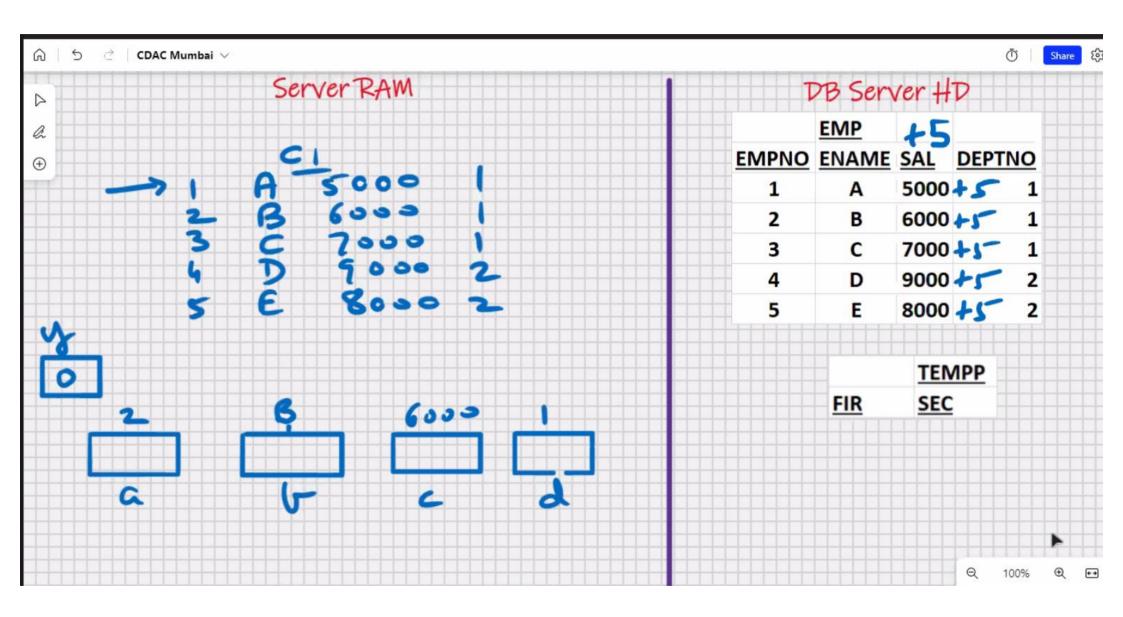


```
DBT.txt
 Edit View
delimiter //
cerate procedure abc()
begin
  declare x int;
  select sal into x from em where ename = 'KING';
  case
  when x > 5000 then
     insert into tempp values(x, 'High sal');
  when x < 5000 then
     insert into tempp values(x, 'Low sal');
  else
     insert into tempp values(x, 'Middle income');
  end case;
end; //
delimiter;
```

```
Edit View
  declare c1 cursor for select * from emp for update;
  declare continue handler for not found set y = 1;
  open c1;
  cursor_c1_loop:loop
     fetch c1 into a, b, c, d;
     if y = 1 then
        leave cursor_c1_loop;
     end if;
     if c > 7000 then
        delete from emp where empno = a;
     end if;
  end loop cursor_c1_loop;
  close c1;
  commit;
end; //
delimiter;
```

```
DBT.txt
  Edit View
  declare c int;
  declare d int;
  declare y int default 0;
  declare c1 cursor for select * from emp;
  declare continue handler for not found set y = 1;
  open c1;
  cursor_c1_loop:loop
     fetch c1 into a, b, c, d;
     if y = 1 then
        leave cursor c1 loop;
     end if;
     if c > 7000 then
        update emp set sal = sal+1;
     end if;
  end loop cursor_c1_loop;
  close c1;
end; //
```

```
b. USED FOR LOCKING THE ROWS MANUALLY
delimiter //
create procedure abc()
begin
  declare c1 cursor for select * from emp for update;
  open c1;
  close c1;
end; //
delimiter;
To lock the rows manually:-
mysql> call abc();
```



```
Edit View
  declare y int default 0;
  declare c1 cursor for select * from emp;
  declare continue handler for not found set y = 1;
  open c1;
  cursor_c1_loop:loop
     fetch c1 into a, b, c, d;
     if y = 1 then
        leave cursor_c1_loop;
     end if;
     if c > 7000 then
        update emp set sal = sal+1 where empno = a;
     end if;
  end loop cursor_c1_loop;
  close c1;
end; //
delimiter ;
```

```
DBT.txt
  Edit View
delimiter //
create procedure abc(dd int)
begin
  declare a int;
  declare c1 cursor for select * from emp where deptno = dd;
  end loop cursor_c1_loop;
  close c1;
end; //
delimiter;
mysql> call abc(1);
mysql> call abc(2);
```

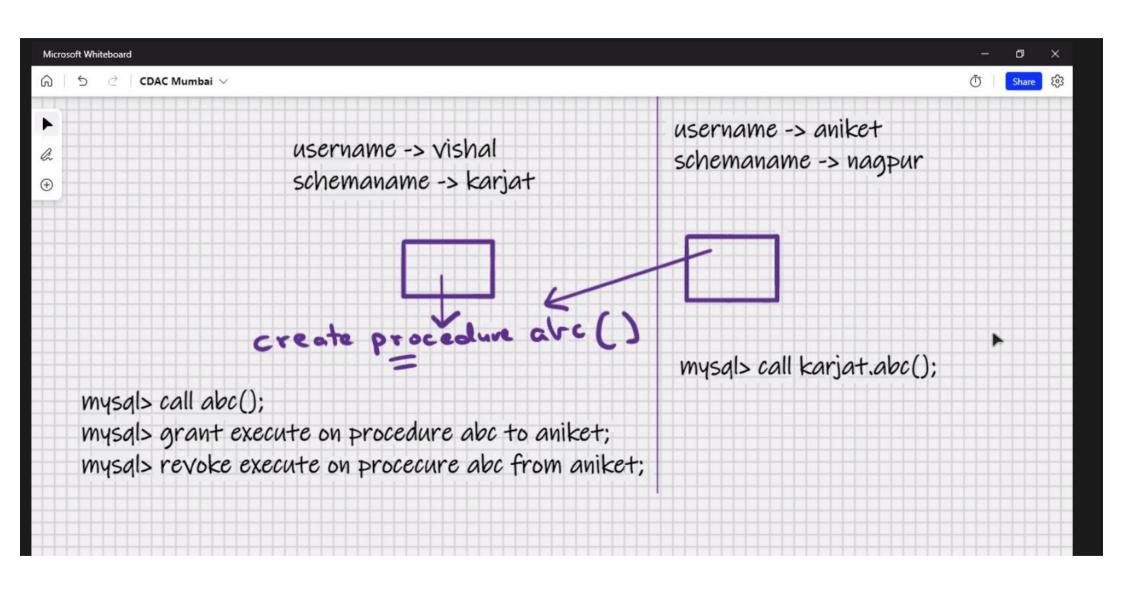
```
DBT.txt
  Edit View
  declare a int;
  declare b varchar(15);
  declare c int;
  declare d int;
  declare x int default 0;
  declare y;
  declare c1 cursor for select * from emp;
  select count(*) into y from emp;
  open c1;
  while x < y do
     fetch c1 into a, b, c, d;
     insert into tempp values(a, b);
     set x = x+1;
  end while;
  close c1;
end; //
delimiter ;
```

```
DBT.txt
 Edit View
delimiter //
create procedure abc()
begin
  declare x int;
  select sal into x from em where ename = 'KING';
  case
  when x > 5000 then
     insert into tempp values(x, 'High sal');
  when x < 5000 then
     insert into tempp values(x, 'Low sal');
  else
     begin
     end;
  end case;
end; //
delimiter;
```

```
DBT.txt
  Edit View
delimiter //
create procedure abc()
begin
  declare x int;
  select sal into x from emp where ename = 'KING';
  if x > 5000 then
     insert into tempp values(x, 'High sal');
  else
     if x < 5000 then
        insert into tempp values(x, 'Middle Income');
     else
        insert into tempp values(x, 'Low sal');
     end if;
  end if;
end; //
delimiter;
```

```
* Procedure can be called by itself
call abc();
* Function cannot be called by itself
set x = pqr();
* function can call itself
create function pqr()
set x = pqr();
```

```
Edit View
delimiter //
create function abc()
returns int
deterministic
begin
  return 10;
end; //
delimiter ;
delimiter //
create procedure pqr()
begin
  declare x int;
  set x = abc(); \leftarrow 10
  insert into tempp values(x, 'after abc');
end; //
```



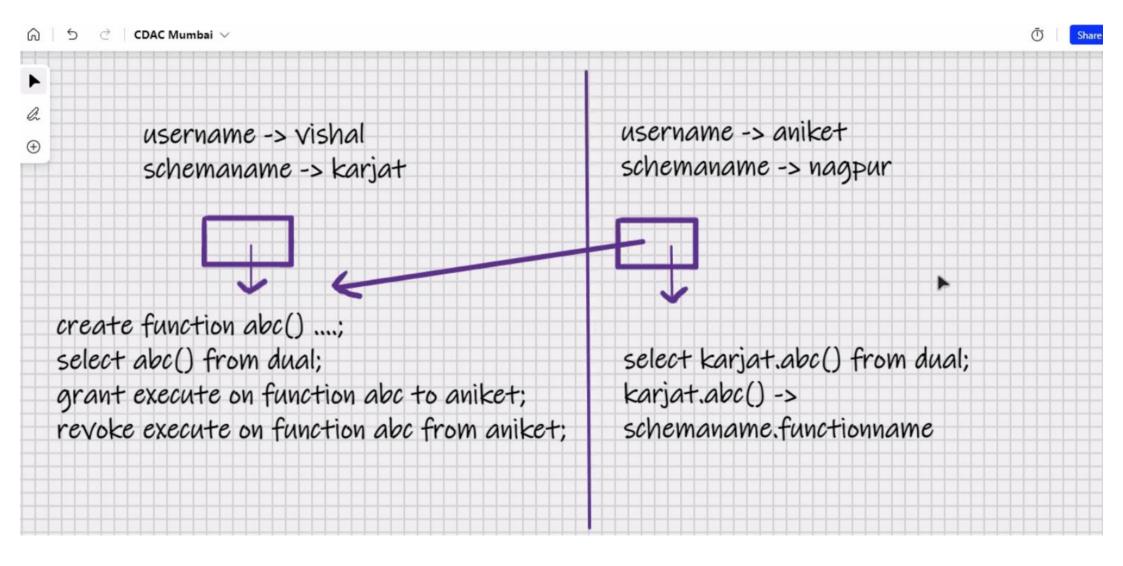
```
DBT.txt
  Edit
     View
delimiter //
create procedure abc()
begin
  declare x int;
  select sal into x from emp where ename = 'KING';
  if x > 5000 then
     insert into tempp values(x, 'High sal');
  else
     insert into tempp values(x, 'Medium sal');
  end if;
end; //
delimiter;
```

```
Edit View
delimiter //
create procedure abc(y int)
begin
  insert into tempp values(y, 'inside abc');
end; //
delimiter;
delimiter //
create procedure pqr()
begin
  declare x int default 10;
  call abc(5);
  call abc(x);
  call abc(2*x + 5);
end; //
delimiter;
```

```
IN
* Read only
* Value of parameter cannot be changed inside the procedure, but you can
  Read from it
delimiter //
create procedure abc(in y int)
begin
  set y = 100; <- ERROR
  set x = y+10; <- ALLOWED
  insert into tempp values(y, 'inside abc');
end; //
delimiter;
```

```
DBT.txt
  Edit View
delimiter //
create procedure abc(inout y int)
begin
  set y = y*y*y;
end; //
delimiter ;
delimiter //
create procedure pqr()
begin
  declare x int default 10;
  insert into tempp values(x, 'before abc');
  call abc(x);
  insert into tempp values(x, 'after abc');
end; //
delimiter;
```

```
DBT.txt
   Edit
     View
delimiter //
create procedure abc()
begin
   declare x int default 1;
   pqr_loop:loop
      if x > 10 then
         leave pqr_loop;
      end if;
      set x = x+1;
      if mod(x,2) != 0 then
         iterate pqr_loop;
      else
         insert into tempp values(x, 'inside loop');
      end if;
end loop;
end; //
delimiter;
```



```
DBT.txt
 Edit View
delimiter //
create procedure abc()
begin
  declare x int default 1;
  declare y int default 1;
  while x < 10 do
     while y < x do
        insert into tempp values(y, 'in y loop');
        set y = y+1;
     end while;
     insert into tempp values(x, 'in x loop');
     set x = x+1;
  end while;
end; //
delimiter;
```

```
DBT.txt
  Edit
delimiter //
create procedure abc()
begin
  declare x int default 1;
  declare y int default 1;
  while x < 10 do
     while y < 10 do
        insert into tempp values(y, 'in y loop');
        set y = y+1;
     end while;
     insert into tempp values(x, 'in x loop');
     /* set x = x+1; */
  end while;
end; //
delimiter;
```

```
File Edit View
delimiter //
create procedure abc(out y int)
begin
  set y = 100;
end; //
delimiter;
delimiter //
create procedure pqr()
begin
  declare x int default 10;
  insert into tempp values(x, 'before abc');
  call abc(x);
  insert into tempp values(x, 'after abc');
end; //
delimiter;
```

```
DBT.txt
  Edit
     View
delimiter //
create procedure abc(in x int, out y float, out z float)
begin
  select sum(sal), avg(sal) into y, z from emp
  where deptno = x;
end; //
delimiter ;;
mysql> set @dnum = 10;
mysql> set @sumsal = 0;
mysql> set @avgsal = 0;
mysql> call abc(@dnum, @sumsal, @avgsal);
mysql> select @sumsal, @avgsal from dual;
```

```
DBT.txt
 Edit View
delimiter //
create procedure abc()
begin
  declare x int default 100;
  repeat
     insert into tempp values(x, 'in loop');
     set x = x+1;
  until x > 5
  end repeat;
end; //
delimiter;
  it will execute at least once, e.g. Outerjoin
```

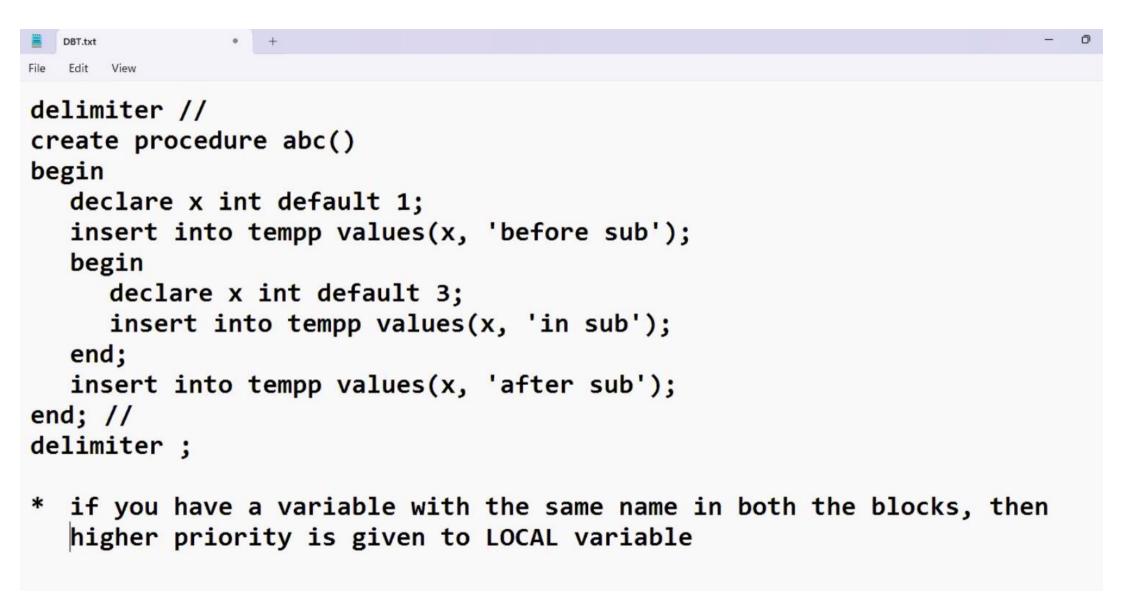
```
delimiter //
create procedure abc()
begin
  declare x int default 1;
  repeat
     insert into tempp values(x, 'in loop');
     set x = x+1;
  until x > 5
  end repeat;
end; //
delimiter;
```

```
DBT.txt
 Edit
     View
delimiter //
create procedure abc()
begin
  declare x int default 1;
  insert into tempp values(x, 'before sub');
  begin
     declare y int default 2;
     insert into tempp values(y, 'in sub');
  end;
  insert into tempp values(y, 'after sub'); <- ERROR</pre>
end; //
delimiter;
  main block cannot access the variable of sub-block
```

```
delimiter //
create procedure abc()
begin
  declare x int default 1;
  insert into tempp values(x, 'before sub');
  begin
     declare y int default 2;
     insert into tempp values(x, 'in sub');
  end;
  insert into tempp values(x, 'after sub');
end; //
delimiter;
```

* sub-block can access the variable of main block

```
DBT.txt
 Edit View
delimiter //
create procedure abc()
begin
  declare x int default 1;
  insert into tempp values(x, 'before sub');
  begin
     declare y int default 2;
     set x = x+y;
     insert into tempp values(x, 'in sub');
  end;
  insert into tempp values(x, 'after sub');
end; //
delimiter;
```



```
DBT.txt
File Edit View
delimiter //
create procedure abc()
begin
  declare x int default 1;
   insert into tempp values(x, 'before sub');
   begin
     declare y int default 2;
     insert into tempp values(y, 'in sub');
  end;
   insert into tempp values(x, 'after sub');
end; //
delimiter;
```