PLSQL ----procedural SQL

if…..esle

loops

create procedure getData(psal int)

select \*

from mgr10

where sal>psal

getData(3000)

create procedure getproc(psal int,pnm varchar(20))

select \*

from mgr10

where sal>psal and name=pnm

getProc(2000,’SMSITH);

Why we write PLSQL

1.increases security

2. reduce network traffic

3. to hide complexity

we need to blocks

1. procedure
2. function
3. trigger

procedure --- block which executes code but don’t return anything

function ----- block which returns one value

triggers----- are special blocks which gets executed automatically

-------write a procedure to find how many employees are there in emp

while writing procedure you may pass data to a procedure and you may get output from the procedure

parameters are 3 types

in ---- use in type of parameters to pass data as i/p

these are read only parameters

out ---- use in type of parameters to get data as o/p

these are write only parameters

inout------ ---- use in type of parameters to pass data as i/p and get the data as o/p

these are read-write parameters

--- to get count of employees who work in the given department

delimiter //

create procedure myproc(in pdeptno int ,out pcnt int)

begin

set pcnt=0;

select count(\*) into pcnt

from emp

where deptno=pdeptno;

end//

delimiter ;

call myproc(10,@cnt)

select @cnt

-------- While passing parameter if you do not specify type then by default it is in parameter

create procedure myproc(pdeptno int)

-> begin

-> select count(\*)

-> from emp

-> where deptno=pdeptno;

-> end//

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----- find empno,name,sal,deptno,job for employee by name

delimiter //

create produre getEmp(in pname varchar(20),out peno int,out psal decimal(9,2),out deptno int,out pjob varchar(20))

begin

select empno,sal,deptno,job into peno,psal,pdeptno,pjob

from emp

where ename=pename;

end;

select \* from dept;

delimiter ;

-------write a procedure to calculate bonus of a employee based on name

if sal <2000

bonus=sal+comm\*10%

else

bonus=sal+comm\*15%

delimiter //

create procedure calcBonus(in pname varchar(20))

begin

declare vcomm,vsal,vbonus int;

select sal,comm into vsal,vcomm

from emp

where ename=pname;

if vsal<2000 then

set vbonus=vsal\*0.10+ifnull(vcomm,0);

else

set vbonus=vsal\*0.15+ifnull(vcomm,0);

end if;

select pname,vsal,vcomm,vbonus;

end//

call calBonus(‘SMITH’)