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## Assignment - VIII

Title: PL/SOL stored procedure & stored function

Problem Statement: Write a stored procedure ramely proc-Grade for the categorization of customer

i) Orderstand PL/SQL stored precedure
ii) Orderstand PL/SQL stored function
iii) Write PL/SQL block rode using stored
procedure & stored function

Outcome :-

Student shall be able to

1) Implement PL/SQL stored procedure

11) Implement PL/SQL stored function

111) Implement PL/SQL block code using

stored procedure.

S/w & H/w requirements:

Mysoc, 64 bit 05,

computer system.

Theory :

- PL/SOL -

PL/sol stands for procedural language. PL/sol affers set of procedural commands organized within block that implement it waterd made of mysol.

· Stored Procedure -

18 a named PLYSOL block which performs one or more specific took. This is similar to a procedure in other procedure programming languages. A procedure has a reader to a body, theader ansist of the name of the procedure f the parameters or variable passed to procedure. The body ansist of declaration section, execution section of exception section similar to general

· Procedure: passing parameters -

en 3 ways.

D IN parameters

11) OUT pasameters

111) IN OUT parameters

A procedure may or may not require any

· General syntax to meate a procedure

CREATE [OR REPLACE] procedure procename[ list of parameters]

peclaration section

Excecution section

Exception section

END.

· stoned function -

A function is a named PLISCL black which is similar to a procedure. The major difference between a procedure of a function is that a function must always return a value but a procedure may or mayrot return a value.

· General syntax to areate function -CREATE [OR REPLACE] Punction fun-name ( paramers

PETURN meturndatatype,

Darlaration section

Begin

Execution section

return return variable.

END

· Return Type -The header section defines the return type of Function. The return detailype can be any of the datatype like varchar, number etc. · P-R diagram custid Cust-id (Name) - customer Purchase) Category (total purchase) class · Test Cases :withhouse to the collecte of National 5/P O/P Expected pesult and without a few of ofp in I call pace-hame ( none none success 2] call proc rame ( Silver Silver Success "A", 3000) Conclusion :-In this assignment, we leavnt emplementation of stored procedure of function.

```
show databases;
create database asgn7;
use asgn7;
create table Customer (cust id int primary key auto increment, name varchar(100),
total purchase int );
create table Category (cust id int primary key auto increment, name varchar(100),
class varchar(100));
show tables:
delimiter $$
create function cust class( credit int )
returns varchar (100)
deterministic
begin
DECLARE customerLevel VARCHAR(100);
IF credit > 20000 THEN
 SET customerLevel = 'Not Define';
ELSEIF (credit >= 10000 AND credit <= 20000) THEN
 SET customerLevel = 'PLATINUM';
ELSEIF (credit >= 5000 AND credit <= 9999) THEN
 SET customerLevel = 'GOLD';
ELSEIF (credit >= 2000 AND credit <= 4999) THEN
 SET customerLevel = 'SILVER':
ELSEIF credit<2000 THEN
 SET customerLevel = 'Not Define';
END IF;
 --return the customer level
 RETURN(customerLevel);
END$$
DELIMITER:
show function status where db='asgn7';
delimiter$$
create procedure proc Grade (in cust name varchar(100), in purchase int)
begin
declare class varchar(100);
insert into Customer (name,total purchase) values (cust name,purchase);
set class = cust class(purchase);
insert into Category(name, class) values (cust name, class);
end$$
delimiter;
call proc Grade('jay',10000);
select * from Customer;
select * from Category;
drop procedure proc Grade;
drop function cust class;
drop table Customer;
drop table Category;
```