

Assignment - VII

Title :- PL/SQL stored procedure & stored function

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

Objective :-

- i) Understand PL/SQL stored procedure
- ii) Understand PL/SQL stored function
- iii) Write PL/SQL block code using stored procedure & stored function

Outcome :-

Student shall be able to

- i) Implement PL/SQL stored procedure
- ii) Implement PL/SQL stored function
- iii) Implement PL/SQL block code using stored procedure

S/w & H/w requirements :-

MySQL, 64 bit OS,
computer system

Theory :-

• PL/SQL -

PL/SQL stands for procedural language structured query language. PL/SQL offers set of procedural commands organized within block that implement & extend reach of MySQL.

• Stored Procedure -

A stored procedure is simply a program a named PL/SQL block which performs one or more specific task. This is similar to a procedure in other procedural programming languages. A procedure has a header & a body, Header consist of the name of the procedure & the parameters or variable passed to procedure. The body consist of declaration section, execution section & exception section, similar to general PL/SQL block.

• Procedure : passing parameters -

We can pass parameters to procedure in 3 ways.

i) IN parameters

ii) OUT parameters

iii) IN OUT parameters

A procedure may or maynot return any value.

- General syntax to create a procedure -

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

IS

Declaration section

Begin

Execution section

Exception

Exception section

END..

- stored function -

A function is a named PL/SQL block which is similar to a procedure. The major difference between a procedure & a function is that a function must always return a value but a procedure may or maynot return a value.

- General syntax to create function -

CREATE [OR REPLACE] Function fun_name [
parameters]

RETURN return datatype,

IS

Declaration section

Begin

Execution section

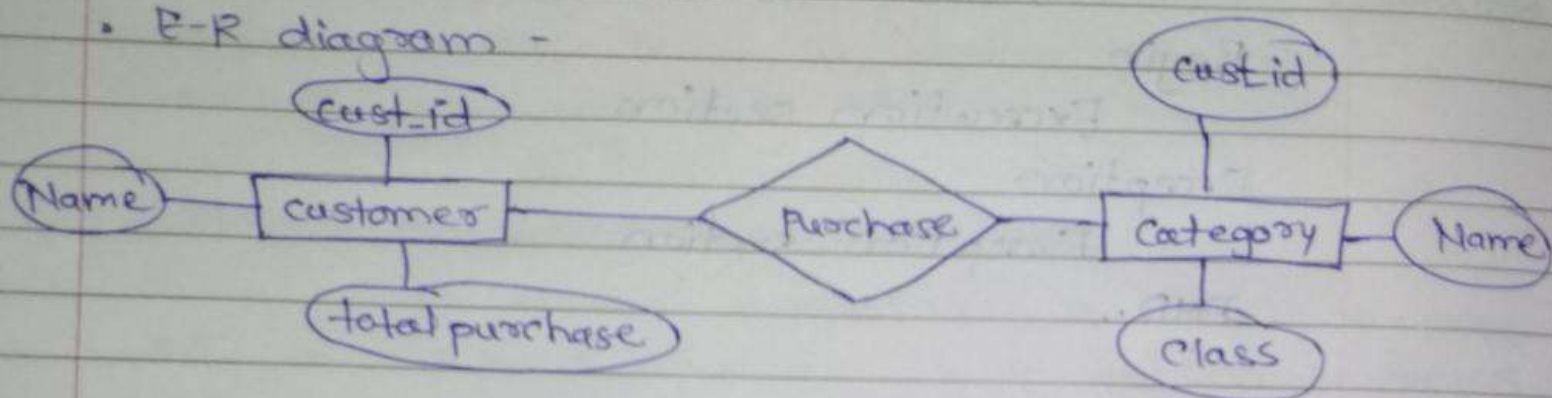
return return variable

END

- Return Type -

The header section defines the return type of function. The return datatype can be any of the datatype like varchar, numbers etc.

- E-R diagram -



- Test Cases :-

I/P	O/P	Expected O/P	result
1] call proc name ("Jay", 1500)	none	none	success
2] call proc name ("A", 3000)	Silver	Silver	Success

Conclusion :-

In this assignment, we learnt implementation of stored procedure & function.