

go write a function using west to accept ity that city. Create function fil (city varchar (20)) return it; As! Declare a cursor for select name from aly, warkhouse where city cno = warehouse who and chame = \$1 Begin; Open CI; Loop Fetch Cy into w_name; enit when not found Raise Notice "go", whame; end loop; clese ci; return o, end; 'language 'plpgsql';

· Cursor syntan

DATE

if (i 70 2 == 0) then
return i?
i++;
end if;
end loop;
end;

· cursor:

statement (records) returned by sol query cursor provide a way to select multiple rows of data from database then process each row individually.

down and netrive any those records which are explicitly requested.

There are two types of whom:

1. Implicit autor:

is executed.

2. Explicit wher:

It is user defined cursor it is created on select statement. It should be defined in declaration.

step 1: Declaring

2: Opening

3: Fetching

4: Closing.

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count int; Begin select into count "(customes. *) from branch, customer where branch bid = customer bid and branch branch name brame if count = = 0 Raise exception "Invalid branch name" exist, exist; end if; return cut; · syntax for loop: while (condition) Loop statements: end Loop; O. write a function to diplay all even numbers between 1 to 50 Create or Replace Function numbers () return int As Dellare i int = 1; Begin while (i < = 50) white condition Loop. Shot on Y30 Al Quad Camera 2022.04.10 17:56

· Exception level calls transcation to be terminated q. write a function to increase loan ant approve by 20 % if essential inital Loan ant approve is less than 100000/- then print mag or notice as loan amt is less then I lake and Create Function Fill return int Dedare amt int; Begin select into ant Lantapp from loan; if (amt <100000) Raise Notice " Amount is see than 100000"; exit; end if i undate Joan set Joan ant lamtapp = lamtapp + (cantapp x0.2) from (can; Return 0; and . 9. Write a function to print total number of customes of a particular branch expect accept kranch name as input incase branch name is invalid vaise exception for the same. Create Function Branch (brame varcher) neturn int As Pedare Shot on Y30 Al Quad Camera 2022.04.10 17:56

Handling Errors and Exceptions in Function. · Enc Raise statement used to send errors and enpeptions during a squ function execution 9. W; raise statement conist of two things i.e. i level ii) string (msq) · Level is of three types to debug, notice, exception . To insert variable in ever mig we use percent eigh as placeholder a. Debug Level; It sends specifed text as debug mig to database b. Notice Level: It will send specified tent as notice c. Exception level: It will send specified text as an error or exception. · Syntan: Raire Level " string"; · Example: Declare a;=10; Raise Notice a is "The value of ofo, a; Shot on Y30 Al Quad Camera 2022.04.10 17:56

	FAGENO. DATE:	
φ.	. Write a function to accept a number and	
	check number is positive and negative.	
	return 1 return 0	
	create or repeace function rum (a int) net	turn in
	As'	
	if (a >0) then	10000
	return 1;	-
100	Cise	
	return 0;	
	end if;	
	end;	
	language 'pipgsql';	10
	para parkabile of beat howard there have	
9.	write a function to increase I amount by	20 %
	if it is less than 2 takes (200000)	/
	3 40 1 40 100	1.4
	Create or Replace function Increant () netu	un int
	Declare	
	loan ant int	
	Select into loop and lamount from loop.	
	Select into loan-ant lamount from loan;	5 17 11 11
	if (loan_amt < 200000) then	.00
	update Joan set loan amt = Joan amt * 0	- 20
	end if;	(1)
	neturn O	
	end	
Shot	Language 'plpgspl';	W. Y.
	Quad Camera 2022.04.10	0 17:56

Begin if (a > b) then return a; else return b: entlif; end; Language plaggel'; 9. write a function to accept a number theck wheather the number in even or odd. If no is even neturn 1 if no is odd return 0. Create or Replace function rum (a int, bint) neturn int; As' if (num % 2 = = 0) then return 1; else neturn o. end if; end; 'Language' plpgsgl'; Shot on Y30 Al Quad Camera 2022.04.10 17:56

o write a function to accept city name as an input and display number of ware houses in that city (One city many wave house) Create or Replace Function Display count (cityname varchar (20)) returns int Ac 1 Declare cut unt Begin Select into cot (court (wavehouse +) from city, warehouse where ity no = warehouse cno and chame = city name; end: 'Language 'plpg sql'; · Conditional Statement. Syntax: if else if (condition) then else and if) p. Write a function to accept two numbers from a user and display maximum number Create or Replace Function Display maximum no int (a int, bint) return int: 2022.04.10 17:55

o write a function to display number of unstoners of a particular branch accept branch name as input relation is one branch many customers anso count number of wetomers from shivaji negar branch select court (customer. #) from customer, Branch where Branch bid = untomer bid and kname = 'Shivaji Nagar · Create or Replace Function Diplay count (brame varchar(20)) returns int As' Declare select no cut int; Begin select int cot (count (customer +) from customer. record or Branch where Branch bid = customer bid and brame= a rowin brname; a variable neturn cut; 'Language : PIP980L' Shot on Y30 Al Quad Camera 2022.04.10 17:55

PAGE NO.

create or repease function addrum () returns int

result int;

a int: = 2;

b int: = 3;

Begin

result := a +b;

return result's

End; Manualina

'Language' pipqsql';

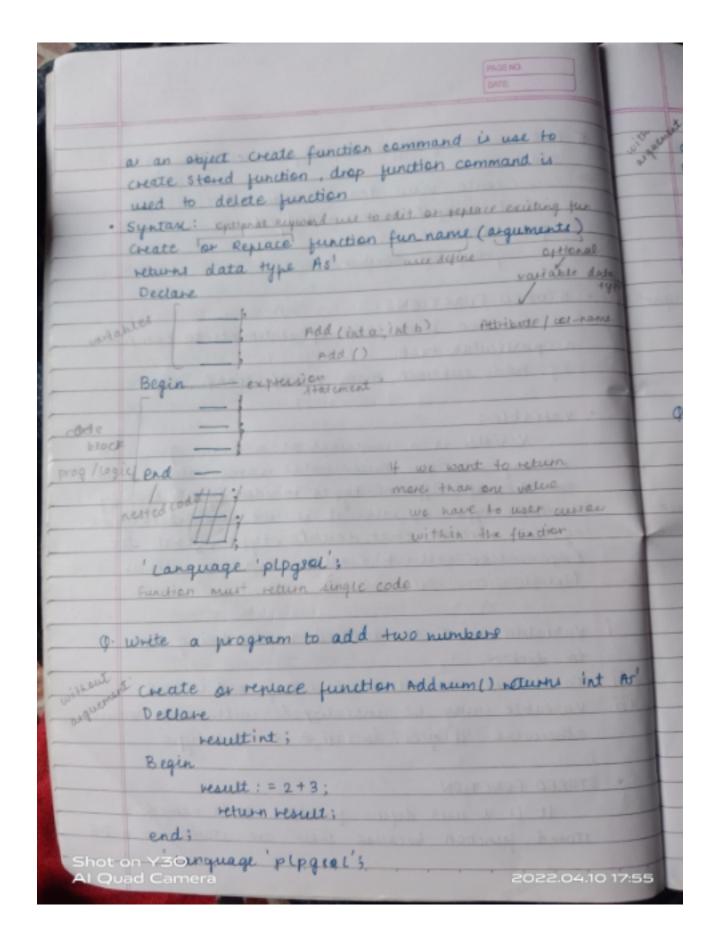
O. Table

Student (sno, mame, class)

Teacher (tho, thame, experience)

relation many to many with descriptive attribute

maximum no. of subjects.



5 List names of different subjects taught by each teacher Create view teacher view As select subject, mame a subject from teacher group by teather trans

. STORED FUNCTIONS:

Function is a block of statements to complete a particular task

eg: Add, subtract, main, printf, scanf, etc

· variable:

Variable is a container or a name given to memory location which holds some value value can be of different types to identify or specify which type of value it is we use datatypes eg; int, varchar, char, doubte, type, float etc (declaration : rall int) (caller ; assigned repeation) (Intialization : roll no int :=)

Variable must be declared before being used to declare

ii To declare variable declare keyword is used iii Variable may be intializzed with some yalue atherwise it gets intialize to null type

· STORED FUNCTION:

It is a user define function It is named is Shot on Y30
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DATE
3. Display details of all routes on which bus no
10 is running.
-> create view third Ac
select route * from route, kus ternary where route ino
= ternary . The and but bno = ternary bno and bus bno = 1
The state of the s
4. Find out driver name wasking in both shift.
- create view fourth As
select dname from driver, ternary where driver dro
= tomany dro and shift in (1.2);
MIT THE SALE SALES OF MARKET POST AND ASSESSED TO THE PARTY OF THE PAR
11 and shift = 1 and shift = 2;
A aniv bribute and store the
5. Display names of driver having moreinum salary.
→ create view fifth As
select drame from diver where salary -
(select mark (salary) from driver);
6. Display details of bus whos capacity is less than 30
> create view Bus_view As
select Bu *
Fram Bus
where Capacity <30;
THE RESERVE OF THE PARTY OF THE
Student (3 no, name, marks, percentage, class)
teacher (tro, trame, subject)
Realtion one to many
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is a subset of real table but it is not a real table.

- · uses of view:
- Restricting data access: view provide additional level of security by restricting access to original table.
- ii Hiding data complexity: A view can hide complexicity that exists in a multiple table join
- iii Simplify commands for user: View allows users to select information from multiple tables without performing
- iv store complex query: Queries which are complex and required many numbers of time can be stored in a view
 - · Syntax:

CREATE VIEW view name As select

coll, col2, ... from table(s) where condition,

view name - wer defined name.

As - keyboard keyword

- * Emp (id, name, designation, salary)
- g. Create a view to diplay id, name, salary of employee -> create view emp-view As

Select id, name, salary from employer, Displaying weated table

select + fram emp view;

Advance Database Management System.

UNITS:

- 1. Relational database system [practical based]
- 2. Transaction concepts
- 3. concurrency control
- 4. Crash recovery
- 5. Patabase security
- 6. Database system architenture

· UNITI: Relational database system.

i canguage structure

ii centralling program flow: a) conditional statements

ixc > view

11 +d> Functions

e) Handling wison and

exception

iii +> cunor

g) Trigger

· VIEW :

Views are virtual table or temporary table it does not store any data in memory.

You can create view from a table or more than one

A view can be created from another view. A view is

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