

GROFERS

Team Members:

J. Chaitanya Venkata Sai Narayana

B. Vishnu Vardhan Reddy

Jagarlamudi Chandini

V.Dhana Lakshmi

Pasupuleti Chandana

Bandaru DhanaLakshmi

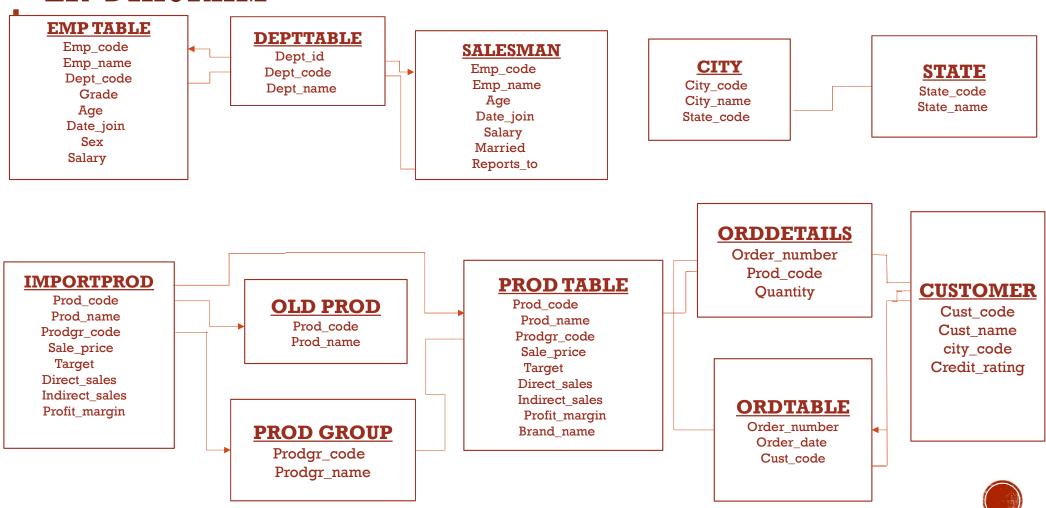
Tommandru Lavanya





ER- Diagram constraints Procedures Functions Packages

ER-DIAGRAM



Desc depttable	
Name	Null? Type
DEPT_ID DEPT_CODE DEPT_NAME	NUMBER(10) NOT NULL VARCHAR2(50) NOT NULL VARCHAR2(50)

desc emptable	
Name	Null? Type
EMP_CODE EMP_NAME DEPT_CODE GRADE AGE DATE_JOIN SEX SALARY	NOT NULL NUMBER(10) NOT NULL VARCHAR2(50) NOT NULL VARCHAR2(50) NOT NULL VARCHAR2(50) NOT NULL NUMBER(10) NOT NULL DATE VARCHAR2(10) NOT NULL NUMBER(6)

desc prodtable	
Name	Null? Type
PROD_CODE PROD_NAME PRODGR_CODE SALE_PRICE TARGET DIRECT_SALES INDIRECT_SALES PROFIT_MARGIN BRAND NAME	NOTNULL NUMBER(10) NOTNULL VARCHAR2(50) NOT NULL NUMBER(10) NOT NULL NUMBER(10) NOT NULL NUMBER(10) NOT NULL NUMBER(10) NOT NULL NUMBER(20) NOT NULL NUMBER(10) NOT NULL NUMBER(10) NOT NULL NUMBER(10) NOT NULL VARCHAR2(50)

desc prodgroup		
Name	Null?	Туре
PRODGR_CODE PRODGR_NAME	NOT NULL NOT NULL	NUMBER(10) VARCHAR2(50)

desc oldprod		
Name	Null?	Type
PROD_CODE PROD_NAME	NOT NULL NOT NULL	NUMBER(10) VARCHAR2(50)

desc importprod	
Name	Null? Type
PROD_CODE PROD_NAME PRODGR_CODE SALE_PRICE TARGET DIRECT_SALES INDIRECT_SALES PROFIT_MARGIN	NOT NULL NUMBER(10) NOT NULL VARCHAR2(50) NOT NULL NUMBER(10) NOT NULL NUMBER(10) NOT NULL NUMBER(10) NOT NULL NUMBER(10) NOT NULL NUMBER(20) NOT NULL NUMBER(10)

Name Null? Type

STATE_CODE NOT NULL NUMBER(30)
STATE_NAME NOT NULL VARCHAR2(50)

Name Null? Type
------CITY_CODE NOT NULL NUMBER(10)
CITY_NAME NOT NULL VARCHAR2(50)
STATE_CODE NOT NULL NUMBER(30)

desc city

desc salesman		
Name	Null?	Туре
EMP_CODE EMP_NAME AGE DATE_JOIN SEX SALARY MARRIED REPORTS_TO	NOT NULL NOT NULL NOT NULL NOT NULL NOT NULL NOT NULL	NUMBER(10) VARCHAR2(50) NUMBER(2) DATE VARCHAR2(10) NUMBER(6) VARCHAR2(10) NUMBER(6) VARCHAR2(10)

desc customer	
Name	Null? Type
CUST_CODE CUST_NAME CITY_CODE CREDIT_RATING	NOT NULL NUMBER(10) NOT NULL VARCHAR2(50) NOT NULL NUMBER(10) NOT NULL VARCHAR2(50)

desc ordtable		
Name	Null?	Туре
ORDER_NUMBER ORDER_DATE CUST_CODE	NOT NULL NOT NULL NOT NULL	NUMBER(10) DATE NUMBER(5)

desc orddetails		
Name	Null?	Туре
ORDER_NUMBER PROD_CODE QUANTITY	NOT NULL NOT NULL NOT NULL	NUMBER(10) NUMBER(4) NUMBER(5)

CONSTRAINTS

PARENT TABLE	COLUMNS	UNIQUE	PRIMARY KEY	FOREIGN KEY	REFERENCES
	Dept_id	✓			
Dept Table	Dept_code		✓		
	Emp_code		✓		
Emp table	Dept_code			✓	Dept Table
	Prod_code		✓		
Product table	Direct_sales	✓			
	Prodgr_code			✓	Product group Table
Product group	Prodgr_code		✓		
	Prod_code		✓		
Import	Direct_sales	✓			
products	Prodgr_code			✓	Product group Table
state	State_code		✓		



PARENT TABLE	COLUMNS	UNIQUE	PRIMARY KEY	FOREIGN KEY	REFERENCES
	City_code		✓		
City Table	state_code			✓	State Table
	Emp_code	✓	✓		
Salesman table	Reports_to			✓	Salesman Table
Customer table	Cust_code	✓	✓		
	Order_number		\checkmark		
Orders table	Cust_code			✓	Customer Table
	Order_number		✓	✓	Orders Table
Order detail	Prod_code			✓	Product Table



PROCEDURES

- ❖Is a type of subprogram that performs an action
- Can be stored in the database as a schema object
- Promotes reusability and maintainability

```
CREATE [OR REPLACE] PROCEDURE procedure_name
[(parameter1 [mode] datatype1,
    parameter2 [mode] datatype2,...)]
IS|AS
[local_variable_declarations;...]
BEGIN
-- actions;
END [procedure_name];
```

1.Procedure to change the employees Manager

• Create or replace function Procedure reports to(did varchar2)

2.Procedure to add department

• Create or replace function Procedure add_dept(dcode varchar2,dname varchar2)

3.Procedure to add new product group

• Create or replace function Procedure add_prodgrp(prdgpname varchar2)

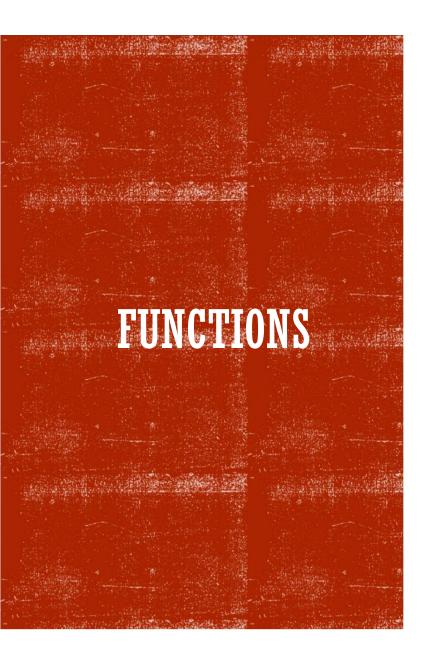
4.Procedure to know employee and salary details

 Create or replace function Procedure query_emp(id in emptable.emp_code%type,name outemptable.emp_name%type,salary out emptable.salary%type)

5.Procedure to know imported products

 Create or replace function Procedure impprod(sale in importprod.sale_price%type,units out importprod.target%type,margin out importprod.profit_margin%type)





- ❖Is a named PL/SQL block that returns a value
- Can be stored in the database as a schema object for repeated execution
- Is called as part of an expression or is used to provide a parameter value
- The PL/SQL block must have at least one RETURN statement.

SYNTAX

*CREATE [OR REPLACE] FUNCTION function_name
 [(parameterl [model] datatypel,...)]
 RETURN datatype IS | AS
 [local_variable_declarations; ...]
 BEGIN
 -- actions;
 RETURN expression;
 END [function_name];

1. Function to Know the products prices greater than the given price

- Create or replace function prod(price number)
- Return type number

2. Function to know the number of orders placed by customer

- Create or replace function total orders(id number)
- Return type number

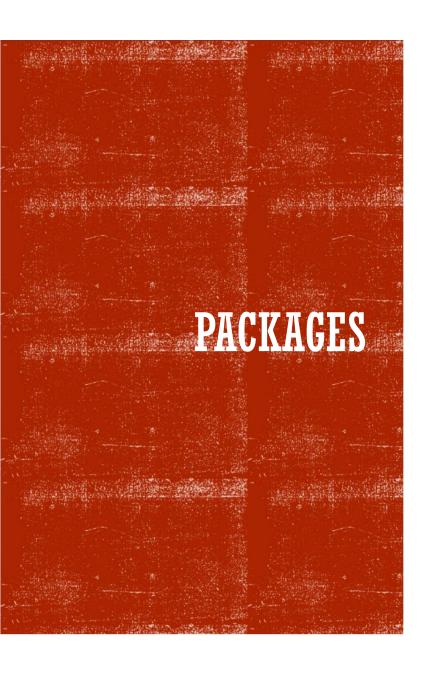
3. Function to know the actual sale price by removing profit margin

- Create or replace function margin(id number)
- Return type number

4. Function to know the total count of products present in the product group

- Create or replace function totalprod (id number, tprod out number)
- Return Type number





PL/SQL packages:

Group logically related components:

❖PL/SQL types

- Variables, data structures, and exceptions
- Subprograms: procedures and functions

Consist of two parts:

- ❖A specification
- A body

SYNTAX:

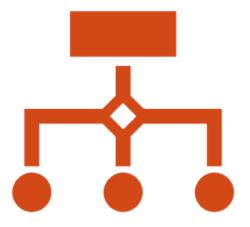
CREATE [OR REPLACE] PACKAGE <package_name>
IS

<sub_program and public element declaration>

END <package name>

- 1.Package to show the number of employees working in each department
 - Package consists of one Function and one Procedure

Create or replace package no_emp
is
function user_valid_deptno(p_dno varchar2)
return boolean;
procedure show_strength(p_deptno
emptable.dept_code%type);
end no_emp;



- 2. creating the package to see the most purchased product
 - Package consists of one Procedure one function

create or replace package find_product As
function max_purchased;
Return number
procedure display_Product;
End Find_product;

