M.K.INSITITUTE OF COMPUTER STUDIES
BHARUCH
SYBCA- SEM 3
ASSIGNMENT-III

Date : 20-Aug-2015

1.	**Create following tables with proper constraints :** Doctor (D_id, D_name, D_address, D_phone) Patient (P_id, P_name, P_address, _phone) Medicine (M_id, M_name, Amount, Exp_date) Bill (B_id, P_id, M_id, D_id, Bill_Amount) Insert at least 5 records in the table. Create a procedure that accept B_id and return P_name, P_address, D_name,D_phone and B_amount detail.
2.	**Create the following tables with necessary constraints:** Applicant (Aid, Aname, Addr, DOB) Etest-details(Aid,etid,,etest_dt, score) Create a function that accept etid and display details of all the applicants.

3.	**Consider following tables and solve the following**
	
	STUDENT(Rollno, Name, Year, Semester, Percentage)
	TOPPERS (Rollno, Name, Year, Semester)
	
	   a. Write a procedure, which enters records of all the toppers in Toppers table. Toppers from all semester wise.
	
	   b. Write a function, which takes input as year along with other necessary parameters and returns total number of students who are fail in specified year. (Consider less than 40% as fail)
	
	   c. Write a trigger which executes at the time of insert in the student table and checks whether the current student is topper or not and if the current student is topper then delete topper record from topper table and insert current student's record in topper table.

4.	**Consider the following table and do as directed :** Emp (empno varchar2(10), ename varchar2(20), dname varchar2(20), salary number(8,2)) a) Write a package which consists of one function and one procedure. Function takes an argument as department name and if salary of employee is more>50000 then add 10% bonus to existing salary. Procedures takes an argument as empno if it is more than 30000 then deduct tax 5% from existing salary.

	b) Consider above package and write a pl/sql block which both function and procedure for all the employees belonging to sales department and having salary >100000. c) Write a pl/sql block which raise a custom exception with a message "Salary is too low" if an employees salary is < 25000 and belonging to purchase department retrieve employee details from the users.
5.	Customer (AcCode number (3), CName varchar2 (50), Balance number (8,2))Transaction (TransNo number (4), AcCode number (3), TransType char (1), Amt number (8,2)) Note: TransType => c for Credit, d for Debit a) **Create package BankMgt.** This package must have following members 1) **Procedure**: AddCust(Name varchar2,Bal number(8,2)) -> To add new customer, AcCode is a next possible Number. Using sequence 2) **Procedure**: CrDr(ACode number,Amount number,CrDr char) -> To record Transaction in Trans Table, Automatically generate new TransNo. Update Customer balance as per debit and credit amount. 3) **Function**: number GetBalance(AcCode number) -> Return Balance of Customer. 4) **Function**: number GetBalance(Cname varchar2) -> Return Balance of Customer.

6.	**Consider the following tables:**
	Medicine (m_name, type, contents, usage, manufacturer)
	Stock (m_name, bt_no, manu_dt, exp_dt, batch_qty)
	
	   a. Write a procedure that will take content of medicine from the user and display all medicine details along with stock details for all medicines.
	
	   b. Write a trigger that does not allow quantity to go down below 10 for all capsules manufactured in the current year.

7.	**Use following table:**Worker (Worker_id, Name, wage/hour, specialization). Write a function which takes worker_id as input and the corresponding record is passed as input to the function. The function checks whether the hourly income is more than Rs 100. Or not.

8.	Create a trigger that will maintain log of transaction on ACT_mast table, when insert, update or delete takes place make entry in log table.
	     ACT_mast(ac-no,ac_name)
	     Log table (ac-no, tdate, tran-type)

9.	Write a database trigger which check and generate automatic Primary key on table emp(eno.ename,sal)
10.	Write a trigger on Emp Table so that we can't change any Value on Friday.
11.	Write a trigger on Emp Table such that salary inserted should not be less than or equal to zero.