DBMS I LAB ASSIGNMENT(PL/SQL) (MCAP2111)
MCA 2nd yr Year 3rd Semester
Session: 2023
PART–III (PL/SQL)

SET- VI (Packages)

1. Writeapackagewhich consist of two functions.
   - ✓ *Addition()*functionacceptttwonumberarguments andreturntheadditionofthem.
   - ✓ *Concat()*functionaccept two stringsandreturnconcatenated string.
2. Createapackagewhichconsistofthreeprocedures.
   - ✓ Firstprocedurecheckforthenumber is>0 ornot.
   - ✓ Secondprocedureacceptsone*date*argumentandcheckthatis<SYSDATEornot.
   - ✓ Thirdprocedureaccepts aname andcheck whetheritis inuppercaseornot.
3. Writeapackagewhich consist ofonefunction andtwo procedures
   - ✓ Function*CheckEmpno()*willchecktheexistenceofemployeewhose*emp-no*takenfromuser.
     - Ifitexiststhanupdatethesalarybyadding Rs1000forthatemployeeusingprocedure *updateProc*.
4. Create a package comprising of a procedure and a function
   - ✓ The function will accept the *company_id*, then calculate the number of employeesinthat companyand return it.
   - ✓ The procedure will accept the company_id, then using the above function, countthe number of employee. If the employee count is less than 2 then delete thecompany from the database.

SET– VII(Triggers)

1. Write a trigger that ensures *emp_no*of EMP table is in the format 'E0001' (*emp_no*must start with 'E' and must be 5 characters long). If not then compute *emp_no*withthisformat beforeinsertinginto the employeetable.
2. Write a trigger which checks the age of employee while inserting the record in EMPtable.If itis lessthan18yearsgeneratethe erroranddisplaypropermessage.
3. Write a trigger which converts the employee name in upper case if it is inserted in anyothercase. Changeshould bedonebeforethe insertion only.
4. Write a trigger that stores the data of EMP table in EMPBackup table for every deleteoperation and storetheold datafor everyupdate operation.

   EMPBackup(***emp_no***,emp_name,birth_date,street,city,date_of_operation,type_of_operation)

   Note:Type_of_operationlikeupdate ordelete.
5. Writeatriggerwhichdisplaythemessage*Updating*,*Deleting*or*Inserting*whenUpdate,DeleteorInsertoperation isperformed ontheEMPtablerespectively.