**SLIP 1-10**

**S1**

CREATE TABLE client34 (

cno NUMBER(5) PRIMARY KEY,

cname VARCHAR2(50),

addr VARCHAR2(100),

birthdate DATE

);

CREATE TABLE policy34 (

pno NUMBER(5) PRIMARY KEY,

description VARCHAR2(100),

matamt NUMBER(10,2) CHECK (matamt> 0),

premamt NUMBER(10,2) CHECK (premamt> 0),

pdate DATE

);

CREATE TABLE cp34 (

cno NUMBER(5) REFERENCES client34(cno) ON DELETE CASCADE,

pno NUMBER(5) REFERENCES policy34(pno) ON DELETE CASCADE

);

INSERT ALL

INTO client34 VALUES (1, 'Aarav Patel', 'Delhi', '1-feb-2023')

INTO client34 VALUES (2, 'Mira Singh', 'Mumbai', '2-feb-2023')

INTO client34 VALUES (3, 'Arjun Sharma', 'Bangalore', '3-feb-2023')

INTO client34 VALUES (4, 'Isha Gupta', 'Kolkata', '3-feb-2023')

INTO client34 VALUES (5, 'Rohan Verma', 'Chennai','5-feb-2023')

SELECT \* FROM dual

INSERT ALL

INTO policy34 VALUES (101, 'Life Insurance', 1500000.00, 5000.00, '2-mar-2000')

INTO policy34 VALUES (102, 'Health Insurance', 1000000.00, 3000.00, '7-jan-1970')

INTO policy34 VALUES (103, 'Auto Insurance', 2000000.00, 4500.00, '5-jan-2000')

INTO policy34 VALUES (104, 'Property Insurance', 3000000.00, 6000.00, '2-mar-2000')

INTO policy34 VALUES (105, 'Travel Insurance', 500000.00, 2000.00, '8-jan-2000')

SELECT \* FROM dual

INSERT ALL

INTO cp34 VALUES (1, 101)

INTO cp34 VALUES (2, 102)

INTO cp34 VALUES (3, 103)

INTO cp34 VALUES (4, 104)

INTO cp34 VALUES (5, 105)

SELECT \* FROM dual

Q1)create or replace function f5(uc in varchar2)

return number is

fsum number;

begin

select sum(policy34.matamt) into fsum from policy34,cp34,client34 where policy34.pno=cp34.pno and client34.cno=cp34.cno and uc = client34.cname;

returnfsum;

end;

select f5(:uc) from dual;

**S2**

CREATE TABLE Item34 (

ino NUMBER(5) primary key,

iname VARCHAR2(50)

);

CREATE TABLE Supplier34 (

sno NUMBER(5) primary key,

sname VARCHAR2(50),

addr VARCHAR2(100),

city VARCHAR2(50)

);

CREATE TABLE isrelation (

ino NUMBER(5) REFERENCES Item34(ino) ON DELETE CASCADE,

sno NUMBER(5) REFERENCES Supplier34(sno) ON DELETE CASCADE,

rate NUMBER(8,2),

quantity NUMBER(5)

);

INSERT ALL

INTO Item34 VALUES (101, 'Laptop')

INTO Item34 VALUES (102, 'Mobile Phone')

INTO Item34 VALUES (103, 'Printer')

INTO Item34 VALUES (104, 'Camera')

INTO Item34 VALUES (105, 'Tablet')

SELECT \* FROM dual;

INSERT ALL

INTO isrelation VALUES (101, 201, 1200.00, 50)

INTO isrelation VALUES (102, 202, 800.00, 100)

INTO isrelation VALUES (103, 203, 300.00, 30)

INTO isrelation VALUES (104, 204, 1500.00, 20)

INTO isrelation VALUES (105, 205, 500.00, 80)

SELECT \* FROM dual;

create or replace function f5(ui in varchar2)

return number is

fnum number;

begin

select count(Supplier34.sno) into fnum from Supplier34,isrelation,Item34 where Supplier34.sno=isrelation.sno and Item34.ino=isrelation.ino and Item34.iname=ui;

returnfnum;

end;

select f5(:ui) as count\_of\_supplier from dual;

q2) create or replace trigger t2

before insert or update on isrelation

for each row

begin

if(:new.quantity<=0 AND :new.rate<=0) then

raise\_application\_error(-20001,'rate and quantity must be greater than zero');

end if;

end;

insert into isrelation values(106, 201,0,0);

**S3**

CREATE TABLE Newspaper341 (

nid number(3) primary key,

name VARCHAR2(50),

language VARCHAR2(20),

publisher VARCHAR2(50),

cost NUMBER(7)

);

CREATE TABLE Cities341 (

pincode number(10) PRIMARY KEY,

city VARCHAR2(50),

state VARCHAR2(50)

);

CREATE TABLE ncrelation1(

nid number(3) REFERENCES Newspaper341(nid) ON DELETE CASCADE,

pincode number(10) REFERENCES Cities341(pincode) ON DELETE CASCADE,

dailyreq NUMBER(5)

);

INSERT ALL

INTO Newspaper341 VALUES (1,'The Times of India', 'English', 'Times Group', 5.00)

INTO Newspaper341 VALUES (2,'DainikBhaskar', 'Hindi', 'Dainik Bhaskar Group', 3.50)

INTO Newspaper341 VALUES (3,'The Hindu', 'English', 'The Hindu Group', 6.00)

INTO Newspaper341 VALUES (4,'Amar Ujala', 'Hindi', 'Amar Ujala Publications', 4.00)

INTO Newspaper341 VALUES (5,'Eenadu', 'Telugu', 'Ushodaya Enterprises', 3.00)

SELECT \* FROM dual;

INSERT ALL

INTO Cities341 VALUES (110001, 'New Delhi', 'Delhi')

INTO Cities341 VALUES (400001, 'Mumbai', 'Maharashtra')

INTO Cities341 VALUES (560001, 'Bangalore', 'Karnataka')

INTO Cities341 VALUES (700001, 'Kolkata', 'West Bengal')

INTO Cities341 VALUES (600001, 'Chennai', 'Tamil Nadu')

SELECT \* FROM dual;

INSERT ALL

INTO ncrelation VALUES (1, 110001, 100)

INTO ncrelation VALUES (2,400001, 80)

INTO ncrelation VALUES (3,560001, 120)

INTO ncrelation VALUES (4,700001, 90)

INTO ncrelation VALUES (5,600001, 70)

SELECT \* FROM dual;

Q1)

create or replace trigger t3

before insert on Cities341

for each row

begin

if(length(:new.pincode) !=6)then

raise\_application\_error(-20002,'Pincode must be of 6 digit');

end if;

end;

insert INTO Cities341 VALUES (11000, 'New Delhi', 'Delhi')

**S4**

CREATE TABLE client34 (

cno NUMBER(5) PRIMARY KEY,

cname VARCHAR2(50),

addr VARCHAR2(100),

birthdate DATE

);

CREATE TABLE policy34 (

pno NUMBER(5) PRIMARY KEY,

description VARCHAR2(100),

matamt NUMBER(10,2) CHECK (matamt> 0),

premamt NUMBER(10,2) CHECK (premamt> 0),

pdate DATE

);

CREATE TABLE cp34 (

cno NUMBER(5) REFERENCES client34(cno) ON DELETE CASCADE,

pno NUMBER(5) REFERENCES policy34(pno) ON DELETE CASCADE

);

INSERT ALL

INTO client34 VALUES (1, 'Aarav Patel', 'Delhi', '1-feb-2023')

INTO client34 VALUES (2, 'Mira Singh', 'Mumbai', '2-feb-2023')

INTO client34 VALUES (3, 'Arjun Sharma', 'Bangalore', '3-feb-2023')

INTO client34 VALUES (4, 'Isha Gupta', 'Kolkata', '3-feb-2023')

INTO client34 VALUES (5, 'Rohan Verma', 'Chennai','5-feb-2023')

SELECT \* FROM dual;

INSERT ALL

INTO policy34 VALUES (101, 'Life Insurance', 1500000.00, 5000.00, '2-mar-2000')

INTO policy34 VALUES (102, 'Health Insurance', 1000000.00, 3000.00, '7-jan-1970')

INTO policy34 VALUES (103, 'Auto Insurance', 2000000.00, 4500.00, '5-jan-2000')

INTO policy34 VALUES (104, 'Property Insurance', 3000000.00, 6000.00, '2-mar-2000')

INTO policy34 VALUES (105, 'Travel Insurance', 500000.00, 2000.00, '8-jan-2000')

SELECT \* FROM dual;

INSERT ALL

INTO cp34 VALUES (1, 101)

INTO cp34 VALUES (2, 102)

INTO cp34 VALUES (3, 103)

INTO cp34 VALUES (4, 104)

INTO cp34 VALUES (5, 105)

SELECT \* FROM dual;

create or replace procedure p4 is

cursor c4 is

select distinct policy34.pno,description,premamt from policy34 where premamt<5000;

begin

for i in c4 loop

dbms\_output.put\_line(i.pno||' '||i.description||' '||i.premamt);

end loop;

end;

run procedure

begin

p4;

end;

q2)

create or replace trigger t4

before insert or update on policy34

for each row

begin

if(:new.premamt>:new.matamt) then

raise\_application\_error(-20003,'Maturity Amount Must be greater Than premium Amount');

end if;

end;

insert INTO policy34 VALUES (109, 'Life Insurance', 15.00, 5000.00, '2-mar-2000')

==================================================================================

**S5**

CREATE TABLE lib34(

lno NUMBER(3) PRIMARY KEY,

lname VARCHAR2(20) NOT NULL,

loc VARCHAR2(20),

libr VARCHAR2(20),

nob NUMBER(7)

);

CREATE TABLE book34(

nid NUMBER PRIMARY KEY,

bname VARCHAR2(50) NOT NULL,

aname VARCHAR2(50),

price NUMBER NOT NULL,

publication VARCHAR2(50),

Lno NUMBER REFERENCES Lib34(Lno) on delete cascade

);

INSERT ALL

INTO lib34 VALUES (1, 'DPU Library', 'Pune', 'Ms. Gupta', 500)

INTO lib34 VALUES (2, 'City Library', 'baramati', 'Mr. Singh', 300)

INTO lib34 VALUES (3, 'Town Library', 'TownAB', 'Ms. Patel', 200)

INTO lib34 VALUES (4, 'University Library', 'University Campus', 'Dr. Kumar', 700)

INTO lib34 VALUES (5, 'Public Library', 'pune', 'Mr. Sharma', 400)

SELECT \* FROM dual;

INSERT ALL

INTO book34 VALUES (101, 'Introduction to SQL', 'Mr. Patil', 25.50, 'XYZ Publications', 1)

INTO book34 VALUES (102, 'Data Structures in C', 'Mr. Singh', 30.00, 'ABC Publishers', 2)

INTO book34 VALUES (103, 'Java Programming', 'Ms. Gupta', 20.00, 'XYZ Publications', 1)

INTO book34 VALUES (104, 'Python for Beginners', 'Mr. Patil', 18.75, 'XYZ Publications', 1)

INTO book34 VALUES (105, 'Algorithms and Complexity', 'Ms. Patel', 35.50, 'ABC Publishers', 3)

SELECT \* FROM dual;

create or replace function f11(pname in varchar2)

return number is

fsum number;

begin

select sum(book340.price) into fsum from lib340,book340 where lib340.lno = book340.Lno and book340.publication=pname;

returnfsum;

end;

select f11(:pname) from dual;

==================================================================================

**S6**

CREATE TABLE emp34(

eid NUMBER PRIMARY KEY,

ename VARCHAR2(50) NOT NULL,

addr VARCHAR2(100)

);

CREATE TABLE inv34(

ino NUMBER PRIMARY KEY,

iname VARCHAR2(50) NOT NULL,

idate DATE,

iamt NUMBER CHECK (iamt> 0),

eid NUMBER REFERENCES emp34(eid)

);

INSERT ALL

INTO emp34 VALUES (1, 'Ravi Kumar', '123 Main Street, City A')

INTO emp34 VALUES (2, 'Priya Sharma', '456 Oak Road, City B')

INTO emp34 VALUES (3, 'Amit Singh', '789 Pine Avenue, City C')

INTO emp34 VALUES (4, 'Neha Patel', '101 Cedar Boulevard, City D')

INTO emp34 VALUES (5, 'Kunal Sharma', '202 Maple Lane, City E')

SELECT \* FROM dual;

INSERT ALL

INTO inv34 VALUES (101, 'शेयर्स', '1-feb-2014',75000, 1)

INTO inv34 VALUES (102, 'mutual fund','1-mar-2014' ,60000, 2)

INTO inv34 VALUES (103, 'FD','1-jan-2014',80000, 3)

INTO inv34 VALUES (104, 'Gold', '8-feb-2014',55000, 4)

INTO inv34 VALUES (105, 'Real Estate','19-feb-2014',70000, 5)

SELECT \* FROM dual;

create or replace procedure p6 is

cursor c4 is

select inv340.ino,iname,iamt from inv340 where iname='mutual fund';

begin

for i in c4 loop

dbms\_output.put\_line(i.ino||' '||i.iname||' '||i.iamt);

end loop;

end;

begin

p6;

end;

==================================================================================

**S7**

create table bill34(

bno number(3) primary key,

day varchar2(15),

tno number(3),

total number(7)

);

create table menu34(

dno number(3) primary key,

dish varchar2(15),

price number(7) not null

);

create table bm34(

bno number(3) references bill34(bno) on delete cascade,

dno number(3) references menu34(dno) on delete cascade,

qty number(3)

);

insert all

into bill34 values(1,'friday',100,800)

into bill34 values(2,'sunday',101,500)

into bill34 values(3,'monday',102,870)

into bill34 values(4,'tuesday',103,890)

into bill34 values(5,'wednesday',104,300)

select \* from dual;

insert all

into menu34 values(1,'pizza lapinos',750)

into menu34 values(2,'chicken tandori',450)

into menu34 values(3,'dal tadka',750)

into menu34 values(4,'kachori puri',800)

into menu34 values(5,'paneer tikha',250)

select \* from dual;

insert all

into bm34 values(1,1,1)

into bm34 values(2,2,5)

into bm34 values(3,3,2)

into bm34 values(4,4,7)

into bm34 values(5,5,2)

select \* from dual;

**NOTE: this query is run on bba34 account**

**Dy = day**

create or replace procedure p4 is

cursor c4 is

select menu34.dno,menu34.dish,menu34.price,bill34.dy from bill34,menu34,bm34 where bm34.bno = bill34.bno and bm34.dno=menu34.dno and menu34.price between 200 and 500 and bill34.dy='sunday';

begin

for i in c4 loop

dbms\_output.put\_line(i.dno||' '||i.dish||' '||i.price);

end loop;

end;

begin

p4;

end;

q2) CREATE OR REPLACE TRIGGER t7

BEFORE INSERT OR UPDATE ON menu34

FOR EACH ROW

BEGIN

IF(:new.price <= 0) THEN

RAISE\_APPLICATION\_ERROR(-20007, 'Price should not be less than zero');

END IF;

END;

insert into menu34 values(10,'pizza lapinos',0)

==================================================================================

**S8**

create table plan34(

pno number(3) primary key,

pname varchar2(15),

nofcall number(3),

frcalltime varchar2(15),

fxamt number(7) check(fxamt>0)

);

create table cust034(

cno number(3) primary key,

cname varchar2(15),

mob number(10),

pno number(3) references plan34(pno) on delete cascade

);

insert into plan34 values(101,'Prepaid dhamaka',100,'1hour',299);

insert into plan34 values(102,'Post dhamaka',100,'1hour',199);

insert into plan34 values(103,'499 pack',100,'1hour',499);

insert into plan34 values(104,'Prepaid bus',100,'1hour',799);

insert into plan34 values(105,'postpaid bus',100,'1hour',999);

insert into cust034 values(1,'rahul',1998998999,101);

insert into cust034 values(2,'manoj',1998958999,102);

insert into cust034 values(3,'ragini',1938998999,103);

insert into cust034 values(4,'purva',1998498999,104);

insert into cust034 values(5,'siddesh',1998998499,105);

declare

cursor c11(ucno cust034.cname%type)

is

select cust034.cname,plan34.pno,plan34.pname,plan34.fxamt from

plan34 ,cust034 where plan34.pno=cust034.pno and ucno = cust034.cno;

begin

for s in c11(:ucno)

loop

DBMS\_OUTPUT.PUT\_LINE(s.cname||' '||s.pno||' '||s.pname||s.fxamt);

end loop;

end;

**S9**

create table dept034(

dno number(3) primary key,

dname varchar2(15),

hod varchar2(15),

loc varchar2(15)

);

create table pr34(

pno number(3) primary key,

pname varchar2(15),

stdate date,

budget number(7),

status VARCHAR2(1) CHECK (status IN ('C', 'I', 'P')),

dno number(3) references dept034(dno) on delete cascade

);

insert into dept034 values(1,'SALES','bharat','baramati');

insert into dept034 values(2,'MANAGEMENT','hardik','baramati');

insert into dept034 values(3,'MARKETING','arnav','baramati');

insert into dept034 values(4,'AUDITING','aditya','baramati');

insert into dept034 values(5,'ACCOUNTING','sidhi','baramati');

insert into pr34 values(101,'sales 2024','1-jan-2023',900000,'P',1);

insert into pr34 values(102,'management 2024','2-jan-2023',900000,'P',2);

insert into pr34 values(103,'marketing 2024','3-jan-2023',900000,'P',3);

insert into pr34 values(104,'audit 2022','1-feb-2023',900000,'C',4);

insert into pr34 values(105,'accounting 2024','1-jan-2023',900000,'P',5);

🡺

declare

cursor c34 is

select pr34.status,dept034.dname,pr34.pno,pr34.pname from dept034,pr34 where dept034.dno=pr34.dno order by pr34.status;

begin

fors in c34

loop

dbms\_output.put\_line(s.status||' '||s.dname||' '||s.pname);

end loop;

q1)

create or replace function f11(uname in varchar2)

return number is

fnum number;

begin

select count(pr34.pno) into fnum from pr34,dept034 where dept034.dno = pr34.dno and pr34.status='P' and dept034.dname= uname;

returnfnum;

end;

select f11(:uname) from dual;

**S10**

create table gym34(

gid number(3) primary key,

name varchar2(25),

city varchar2(15),

charges number(7)check(charges>0),

scheme varchar2(15)

);

create table mem34(

id number(3) primary key,

mname varchar2(15),

phno number(10),

addr varchar2(15),

gid number(3)references gym34(gid) on delete cascade

);

insert into gym34 values(101,'GYM KATTA','baramati',4000,'power plan');

insert into gym34 values(102,'Baramati GYM','pune',4000,'power plan');

insert into gym34 values(103,'GYM bois','pune',4000,'power plan');

insert into gym34 values(104,'sigma GYM ','baramati',9400,'power plan');

insert into gym34 values(105,'GYM jogin','baramati',9400,'power plan');

insert into mem34 values(1,'rahul',9090987785,'baramati',101);

insert into mem34 values(2,'mangesh',9094987785,'pune',102);

insert into mem34 values(3,'adil',9094987785,'pune',103);

insert into mem34 values(4,'joginder',9094947785,'baramati',104);

insert into mem34 values(5,'suraj',9090987785,'baramati',105);

q1)

create or replace function f11(umid in number,us in varchar2)

return number is

fch number;

begin

select gym34.charges into fch from gym34,mem34 where gym34.gid=mem34.gid and umid=mem34.id and us=gym34.scheme;

return fch;

end;

select f11(:umid,:us) from dual;

q2)

create or replace trigger t10

before insert or update on gym34

for each row

begin

if(:new.charges<1000)then

raise\_application\_error(-20010,'Charges Must be greater Than 1000');

end if;

end;

insert into gym34 values(106,'GYM KATTA','baramati',500,'power plan');