# Slip no 18

CREATE TABLE stda23 (

sno NUMBER(5) PRIMARY KEY,

sname VARCHAR2(50) NOT NULL,

sclass VARCHAR2(10)

);

CREATE TABLE comp23 (

cno NUMBER(5) PRIMARY KEY,

cname VARCHAR2(50) NOT NULL,

ctype VARCHAR2(10) CHECK (ctype IN ('sports', 'academic'))

);

CREATE TABLE stdcomp23 (

sno NUMBER(5) REFERENCES stda23(sno) on delete cascade,

cno NUMBER(5) REFERENCES comp23(cno) on delete cascade,

year NUMBER(4),

rank NUMBER(3),

PRIMARY KEY (sno, cno, year)

);

INSERT ALL

INTO stda23 VALUES (1, 'Ravi Kumar', '12A')

INTO stda23 VALUES (2, 'Priya Sharma', '11B')

INTO stda23 VALUES (3, 'Amit Singh', '10C')

INTO stda23 VALUES (4, 'Neha Patel', '12B')

INTO stda23 VALUES (5, 'Kunal Sharma', '11A')

SELECT \* FROM dual;

INSERT ALL

INTO comp23 VALUES (101, 'Chess Championship', 'sports')

INTO comp23 VALUES (102, 'Science Fair', 'academic')

INTO comp23 VALUES (103, 'Football Tournament', 'sports')

INTO comp23 VALUES (104, 'Debate Competition', 'academic')

INTO comp23 VALUES (105, 'Math Olympiad', 'academic')

SELECT \* FROM dual;

INSERT ALL

INTO stdcomp23 VALUES (1, 101, 2022, 2)

INTO stdcomp23 VALUES (2, 102, 2022, 1)

INTO stdcomp23 VALUES (3, 103, 2022, 3)

INTO stdcomp23 VALUES (4, 104, 2022, 1)

INTO stdcomp23 VALUES (5, 105, 2022, 2)

SELECT \* FROM dual;

create or replace function f23 (u in number)

return number is

fnum number(4);

begin

select count(comp23.cno) into fnum from comp23,stdcomp23,stda23 where stda23.sno=stdcomp23.sno and comp23.cno=stdcomp23.cno and stdcomp23.year=2022 and u=stda23.sno;

return fnum;

end;

select f23(:u) from dual;

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

declare

cursor c23(uyear stdcomp23.year%type) is

select stdcomp23.year,comp23.cno,cname,ctype from comp23,stda23,stdcomp23 where stda23.sno=stdcomp23.sno and comp23.cno=stdcomp23.cno and uyear=stdcomp23.year;

begin

for s in c23(:uyear)

loop

dbms\_output.put\_line(s.year||''||s.cno||''||s.cname||''||s.ctype);

end loop;

end;