**Slip 20-30**

**S21-**

create table clg34(

code number(3) primary key,

cname varchar2(20),

addr varchar2(20)

);

create table tech34(

tid number(3) primary key,

tname varchar2(15) not null,

qual varchar2(15),

spec varchar2(15),

sal number(7),

desg varchar2(15),

code number(3) references clg34(code) on delete cascade

);

INSERT INTO clg34 VALUES (1, 'Shamrao college', 'Address A');

INSERT INTO clg34 VALUES (2, 'Vp College ', 'Address B');

INSERT INTO clg34 VALUES (3, 'Tc College ', 'Address C');

INSERT INTO clg34 VALUES (4, 'Target College ', 'Address D');

INSERT INTO clg34 VALUES (5, 'pune assoc college', 'Address E');

INSERT INTO tech34 VALUES (101, 'Shami kharat', 'M.Tech', 'Computer Science', 80000, 'Professor', 1);

INSERT INTO tech34 VALUES (102, 'Jayesh waghmare', 'Ph.D.', 'Electrical Engineering', 90000, 'Associate Professor', 2);

INSERT INTO tech34 VALUES (103, 'Bob wilson', 'B.Tech', 'Mechanical Engineering', 75000, 'Assistant Professor', 3);

INSERT INTO tech34 VALUES (104, 'manish patnakar', 'M.Sc.', 'Physics', 70000, 'Lecturer', 4);

INSERT INTO tech34 VALUES (105, 'Chris elvish', 'Ph.D.', 'Chemistry', 85000, 'Professor', 5);

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**S22**

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**S23-**

CREATE TABLE wholesaler34 (

wno NUMBER(3) PRIMARY KEY,

wname VARCHAR2(50) NOT NULL,

address VARCHAR2(50),

city VARCHAR2(50)

);

CREATE TABLE product34 (

pno NUMBER(4) PRIMARY KEY,

pname VARCHAR2(50) NOT NULL,

rate NUMBER(7) CHECK (rate > 0)

);

CREATE TABLE wp (

wno NUMBER(3) REFERENCES wholesaler34(wno) ON DELETE CASCADE,

pno NUMBER(4) REFERENCES product34(pno) ON DELETE CASCADE,

quantity NUMBER(5) CHECK (quantity > 0),

PRIMARY KEY (wno, pno)

);

INSERT INTO wholesaler34 VALUES (1, 'Raj Traders', '123 Street', 'City A');

INSERT INTO wholesaler34 VALUES (2, 'Sharma Distributors', '456 Road', 'City B');

INSERT INTO wholesaler34 VALUES (3, 'Singh Enterprises', '789 Avenue', 'City C');

INSERT INTO wholesaler34 VALUES (4, 'Patel Traders', '101 Boulevard', 'City D');

INSERT INTO wholesaler34 VALUES (5, 'Kumar Suppliers', '202 Lane', 'City E');

INSERT INTO product34 VALUES (101, 'Sugar', 50.00);

INSERT INTO product34 VALUES (102, 'Tea Leaves', 75.00);

INSERT INTO product34 VALUES (103, 'Rice', 40.00);

INSERT INTO product34 VALUES (104, 'Wheat Flour', 30.00);

INSERT INTO product34 VALUES (105, 'Spices', 60.00);

INSERT INTO wp VALUES (1, 101, 200);

INSERT INTO wp VALUES (2, 102, 150);

INSERT INTO wp VALUES (3, 103, 100);

INSERT INTO wp VALUES (4, 104, 250);

INSERT INTO wp VALUES (5, 105, 120);

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**S24-**

CREATE TABLE lab340(

lno NUMBER(3) PRIMARY KEY,

lname VARCHAR2(50),

cap NUMBER(5) NOT NULL,

equipment VARCHAR2(100)

);

INSERT ALL

INTO lab340 VALUES (1, 'Chemistry Lab', 30, 'Bunsen burners, Beakers, Test tubes')

INTO lab340 VALUES (2, 'Physics Lab', 25, 'Optical benches, Pulleys, Pendulums')

INTO lab340 VALUES (3, 'Computer Lab', 20, 'Computers, Projectors, Whiteboards')

INTO lab340 VALUES (4, 'Biology Lab', 35, 'Microscopes, Specimens, Petri dishes')

INTO lab340 VALUES (5, 'Math Lab', 15, 'Geometric shapes, Calculators, Graph paper')

SELECT \* FROM dual;

CREATE TABLE stud340(

rno NUMBER(5) PRIMARY KEY,

sname VARCHAR2(50),

class VARCHAR2(20),

timetable VARCHAR2(100),

lno NUMBER(3) REFERENCES lab340(lno) ON DELETE CASCADE

);

INSERT ALL

INTO stud340 VALUES (101, 'Aarav Patel', '10th', 'Monday: Math, Tuesday: Science, Wednesday: English', 1)

INTO stud340 VALUES (102, 'Mira Singh', '11th', 'Monday: History, Tuesday: Physics, Wednesday: Chemistry', 2)

INTO stud340 VALUES (103, 'Arjun Sharma', '12th', 'Monday: Biology, Tuesday: Geography, Wednesday: Computer Science', 3)

INTO stud340 VALUES (104, 'Isha Gupta', '9th', 'Monday: Social Studies, Tuesday: Mathematics, Wednesday: Physical Education', 4)

INTO stud340 VALUES (105, 'Rohan Verma', '10th', 'Monday: English, Tuesday: Chemistry, Wednesday: Physics', 5)

SELECT \* FROM dual;

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**S28-**

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;

**S29**

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;

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**S30**

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;