**Slip 10-20**

**S11-**

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;

**================================================================================**

**S12-**

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);

**================================================================================**

**S13**

**================================================================================**

**S14**

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);

**================================================================================**

**S15-**

CREATE TABLE driver34(

did NUMBER(11) PRIMARY KEY,

dname VARCHAR2(50) NOT NULL,

addr VARCHAR2(100)

);

CREATE TABLE car34(

lno NUMBER(11) PRIMARY KEY,

model VARCHAR2(50),

year NUMBER(4)

);

CREATE TABLE dc34(

did NUMBER(11) REFERENCES driver(did) on delete cascade,

lno NUMBER(11) REFERENCES car(lno) on delete cascade,

udate DATE,

utime varchar2(20)

);

INSERT ALL

INTO driver34 VALUES (1, 'Aarav Patel', 'Delhi')

INTO driver34 VALUES (2, 'Mira Singh', 'Mumbai')

INTO driver34 VALUES (3, 'Arjun Sharma', 'Bangalore')

INTO driver34 VALUES (4, 'Isha Gupta', 'Kolkata')

INTO driver34 VALUES (5, 'Rohan Verma', 'Chennai')

SELECT \* FROM dual;

INSERT ALL

INTO car34 VALUES (101, 'Swift', 2020)

INTO car34 VALUES (102, 'City', 2022)

INTO car34 VALUES (103, 'Civic', 2021)

INTO car34 VALUES (104, 'Fortuner', 2020)

INTO car34 VALUES (105, 'XUV500', 2023)

SELECT \* FROM dual

INSERT ALL

INTO dc34 VALUES (1, 101,'1-feb-15', '08:30 AM')

INTO dc34 VALUES (2, 102,'2-feb-17', '10:45 AM')

INTO dc34 VALUES (3, 103,'10-feb-15', '02:00 PM')

INTO dc34 VALUES (4, 104,'1-jan-18', '09:15 AM')

INTO dc34 VALUES (5, 105,'1-feb-17', '01:30 PM')

SELECT \* FROM dual;

**================================================================================**

**S16**

CREATE TABLE game34 (

gname VARCHAR2(50) PRIMARY KEY,

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

cname VARCHAR2(50)

);

CREATE TABLE player34 (

pid NUMBER PRIMARY KEY,

pname VARCHAR2(50),

addr VARCHAR2(100),

cname VARCHAR2(50)

);

CREATE TABLE gprelation (

gname VARCHAR2(50) REFERENCES game34(gname) on delete cascade,

pid NUMBER REFERENCES player34(pid) on delete cascade

);

INSERT ALL

INTO game34 VALUES ('Cricket', 11, 'John Doe')

INTO game34 VALUES ('Football', 22, 'Jane Smith')

INTO game34 VALUES ('Badminton', 4, 'David Johnson')

INTO game34 VALUES ('Basketball', 8, 'Maria Garcia')

INTO game34 VALUES ('Tennis', 2, 'Robert Brown')

SELECT \* FROM dual;

INSERT ALL

INTO game34 (gname, nop, cname) VALUES ('Cricket', 11, 'John Doe')

INTO game34 (gname, nop, cname) VALUES ('Football', 22, 'Jane Smith')

INTO game34 (gname, nop, cname) VALUES ('Badminton', 4, 'Yashvant bhide')

INTO game34 (gname, nop, cname) VALUES ('Basketball', 8, 'Maria Garcia')

INTO game34 (gname, nop, cname) VALUES ('Tennis', 2, 'arjit yash')

SELECT \* FROM dual;

INSERT ALL

INTO player34 (pid, pname, addr, cname) VALUES (1, 'Aarav Patel', 'Delhi', 'ABC Club')

INTO player34 (pid, pname, addr, cname) VALUES (2, 'Mira Singh', 'Mumbai', 'XYZ Club')

INTO player34 (pid, pname, addr, cname) VALUES (3, 'Arjun Sharma', 'Bangalore', 'Tech Club')

INTO player34 (pid, pname, addr, cname) VALUES (4, 'Isha Gupta', 'Kolkata', 'Innovation Club')

INTO player34 (pid, pname, addr, cname) VALUES (5, 'Rohan Verma', 'Chennai', 'Info Club')

SELECT \* FROM dual;

INSERT ALL

INTO gprelation VALUES ('Cricket', 1)

INTO gprelation VALUES ('Football', 2)

INTO gprelation VALUES ('Badminton', 3)

INTO gprelation VALUES ('Basketball', 4)

INTO gprelation VALUES ('Tennis', 5)

SELECT \* FROM dual;

**================================================================================**

**S17**

CREATE TABLE person34 (

pname VARCHAR2(50) PRIMARY KEY,

pcity VARCHAR2(50)

);

CREATE TABLE Compy34 (

name VARCHAR2(50) PRIMARY KEY,

address VARCHAR2(100),

city VARCHAR2(50),

phone VARCHAR2(15),

svalue NUMBER(7)

);

CREATE TABLE comper34(

name VARCHAR2(50) REFERENCES Compy34(name) on delete cascade,

pname VARCHAR2(50) REFERENCES Person34(pname) on delete cascade,

Noshares NUMBER(11)

);

INSERT ALL

INTO person34 VALUES ('Ravi Kumar', 'Delhi')

INTO person34 VALUES ('Priya Sharma', 'Mumbai')

INTO person34 VALUES ('Amit Singh', 'Bangalore')

INTO person34 VALUES ('Sneha Gupta', 'Kolkata')

INTO person34 VALUES ('Rahul Verma', 'Chennai')

SELECT \* FROM dual;

INSERT ALL

INTO Compy34 VALUES ('ABC Corporation', '123 Main St', 'Delhi', '1234567890', 1000000)

INTO Compy34 VALUES ('XYZ Ltd', '456 Park Ave', 'Mumbai', '9876543210', 800000)

INTO Compy34 VALUES ('Tech Solutions', '789 Tech St', 'Bangalore', '8765432109', 1200000)

INTO Compy34 VALUES ('Global Innovations', '101 Innovation Blvd', 'Kolkata', '7654321098', 1500000)

INTO Compy34 VALUES ('Info Systems', '202 Info St', 'Chennai', '6543210987', 900000)

SELECT \* FROM dual;

INSERT ALL

INTO comper34 VALUES ('ABC Corporation', 'Ravi Kumar', 1000)

INTO comper34 VALUES ('XYZ Ltd', 'Priya Sharma', 800)

INTO comper34 VALUES ('Tech Solutions', 'Amit Singh', 1200)

INTO comper34 VALUES ('Global Innovations', 'Sneha Gupta', 1500)

INTO comper34 VALUES ('Info Systems', 'Rahul Verma', 900)

SELECT \* FROM dual;

**================================================================================**

**S18**

CREATE TABLE std34 (

sno NUMBER(5) PRIMARY KEY,

sname VARCHAR2(50) NOT NULL,

sclass VARCHAR2(10)

);

CREATE TABLE comp34 (

cno NUMBER(5) PRIMARY KEY,

cname VARCHAR2(50) NOT NULL,

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

);

CREATE TABLE stdcomp34 (

sno NUMBER(5) REFERENCES std34(sno) on delete cascade,

cno NUMBER(5) REFERENCES comp34(cno) on delete cascade,

year NUMBER(4),

rank NUMBER(3),

PRIMARY KEY (sno, cno, year)

);

INSERT ALL

INTO std34 VALUES (1, 'Ravi Kumar', '12A')

INTO std34 VALUES (2, 'Priya Sharma', '11B')

INTO std34 VALUES (3, 'Amit Singh', '10C')

INTO std34 VALUES (4, 'Neha Patel', '12B')

INTO std34 VALUES (5, 'Kunal Sharma', '11A')

SELECT \* FROM dual;

INSERT ALL

INTO comp34 VALUES (101, 'Chess Championship', 'sports')

INTO comp34 VALUES (102, 'Science Fair', 'academic')

INTO comp34 VALUES (103, 'Football Tournament', 'sports')

INTO comp34 VALUES (104, 'Debate Competition', 'academic')

INTO comp34 VALUES (105, 'Math Olympiad', 'academic')

SELECT \* FROM dual;

INSERT ALL

INTO stdcomp34 VALUES (1, 101, 2022, 2)

INTO stdcomp34 VALUES (2, 102, 2022, 1)

INTO stdcomp34 VALUES (3, 103, 2022, 3)

INTO stdcomp34 VALUES (4, 104, 2022, 1)

INTO stdcomp34 VALUES (5, 105, 2022, 2)

SELECT \* FROM dual;

**================================================================================**

**S19**

CREATE TABLE game34 (

gname VARCHAR2(50) PRIMARY KEY,

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

cname VARCHAR2(50)

);

CREATE TABLE player34 (

pid NUMBER PRIMARY KEY,

pname VARCHAR2(50),

addr VARCHAR2(100),

cname VARCHAR2(50)

);

CREATE TABLE gprelation (

gname VARCHAR2(50) REFERENCES game34(gname) on delete cascade,

pid NUMBER REFERENCES player34(pid) on delete cascade

);

INSERT ALL

INTO game34 VALUES ('Cricket', 11, 'John Doe')

INTO game34 VALUES ('Football', 22, 'Jane Smith')

INTO game34 VALUES ('Badminton', 4, 'David Johnson')

INTO game34 VALUES ('Basketball', 8, 'Maria Garcia')

INTO game34 VALUES ('Tennis', 2, 'Robert Brown')

SELECT \* FROM dual;

INSERT ALL

INTO game34 (gname, nop, cname) VALUES ('Cricket', 11, 'John Doe')

INTO game34 (gname, nop, cname) VALUES ('Football', 22, 'Jane Smith')

INTO game34 (gname, nop, cname) VALUES ('Badminton', 4, 'Yashvant bhide')

INTO game34 (gname, nop, cname) VALUES ('Basketball', 8, 'Maria Garcia')

INTO game34 (gname, nop, cname) VALUES ('Tennis', 2, 'arjit yash')

SELECT \* FROM dual;

INSERT ALL

INTO player34 (pid, pname, addr, cname) VALUES (1, 'Aarav Patel', 'Delhi', 'ABC Club')

INTO player34 (pid, pname, addr, cname) VALUES (2, 'Mira Singh', 'Mumbai', 'XYZ Club')

INTO player34 (pid, pname, addr, cname) VALUES (3, 'Arjun Sharma', 'Bangalore', 'Tech Club')

INTO player34 (pid, pname, addr, cname) VALUES (4, 'Isha Gupta', 'Kolkata', 'Innovation Club')

INTO player34 (pid, pname, addr, cname) VALUES (5, 'Rohan Verma', 'Chennai', 'Info Club')

SELECT \* FROM dual;

INSERT ALL

INTO gprelation VALUES ('Cricket', 1)

INTO gprelation VALUES ('Football', 2)

INTO gprelation VALUES ('Badminton', 3)

INTO gprelation VALUES ('Basketball', 4)

INTO gprelation VALUES ('Tennis', 5)

SELECT \* FROM dual;

**================================================================================**

**S20**

CREATE TABLE driver34(

did NUMBER(11) PRIMARY KEY,

dname VARCHAR2(50) NOT NULL,

addr VARCHAR2(100)

);

CREATE TABLE car34(

lno NUMBER(11) PRIMARY KEY,

model VARCHAR2(50),

year NUMBER(4)

);

CREATE TABLE dc34(

did NUMBER(11) REFERENCES driver(did) on delete cascade,

lno NUMBER(11) REFERENCES car(lno) on delete cascade,

udate DATE,

utime varchar2(20)

);

INSERT ALL

INTO driver34 VALUES (1, 'Aarav Patel', 'Delhi')

INTO driver34 VALUES (2, 'Mira Singh', 'Mumbai')

INTO driver34 VALUES (3, 'Arjun Sharma', 'Bangalore')

INTO driver34 VALUES (4, 'Isha Gupta', 'Kolkata')

INTO driver34 VALUES (5, 'Rohan Verma', 'Chennai')

SELECT \* FROM dual;

INSERT ALL

INTO car34 VALUES (101, 'Swift', 2020)

INTO car34 VALUES (102, 'City', 2022)

INTO car34 VALUES (103, 'Civic', 2021)

INTO car34 VALUES (104, 'Fortuner', 2020)

INTO car34 VALUES (105, 'XUV500', 2023)

SELECT \* FROM dual

INSERT ALL

INTO dc34 VALUES (1, 101,'1-feb-15', '08:30 AM')

INTO dc34 VALUES (2, 102,'2-feb-17', '10:45 AM')

INTO dc34 VALUES (3, 103,'10-feb-15', '02:00 PM')

INTO dc34 VALUES (4, 104,'1-jan-18', '09:15 AM')

INTO dc34 VALUES (5, 105,'1-feb-17', '01:30 PM')

SELECT \* FROM dual;