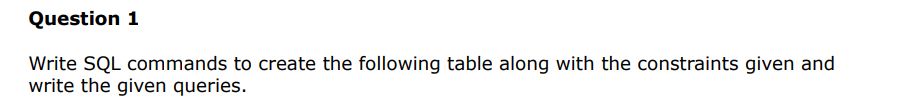
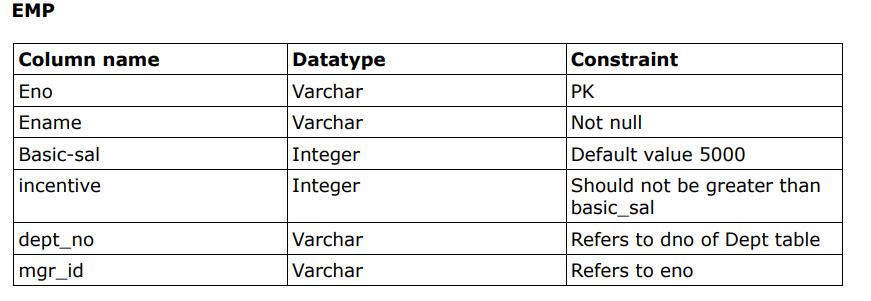
**22AIE303 DBMS**

**LABSHEET 1**

Date:24/9/2024

**Abhiram A S  
AM.EN.U4AIE22002**

****

****

**CREATE TABLE EMP(**

**eno VARCHAR PRIMARY KEY,**

**ename VARCHAR NOT NULL,**

**basic-sal INT DEFAULT '5000',**

**incentive INT CHECK(incentive <= basic\_sal),**

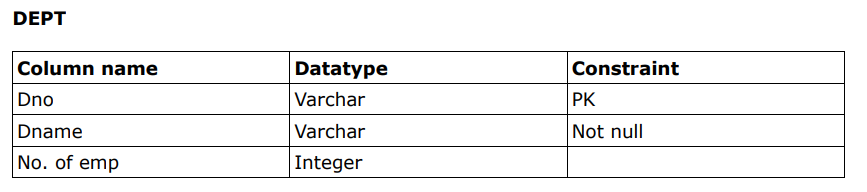
**dept\_no VARCHAR,**

**mgr\_id VARCHAR,**

**FOREIGN KEY dept\_no REFERENCES DEPT(dno),**

**FOREIGN KEY mgr\_id REFERENCES EMP(eno)**

**);**

****

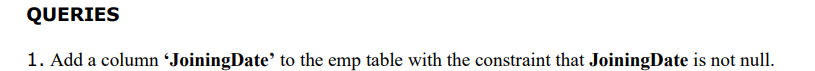
**CREATE TABLE DEPT(**

**dno VARCHAR PRIMARY KEY,**

**dname VARCHAR NOT NULL,**

**no\_of\_employees INT**

**);**

****

**ALTER TABLE EMP ADD JoiningDate DATE NOT NULL;**

****

**ALTER TABLE DEPT ADD HOD VARCHAR, ADD FOREIGN KEY (HOD) REFERENCES EMP(eno);**

****

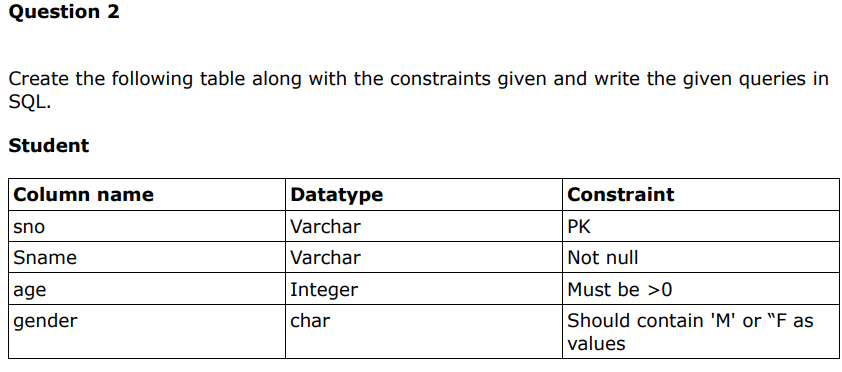
**SELECT eno FROM EMP WHERE dept\_no = 'D1';**

****

**SELECT \* FROM DEPT;**

****

**SELECT eno, ename, joiningdate FROM EMP;**



**CREATE TABLE STUDENT(**

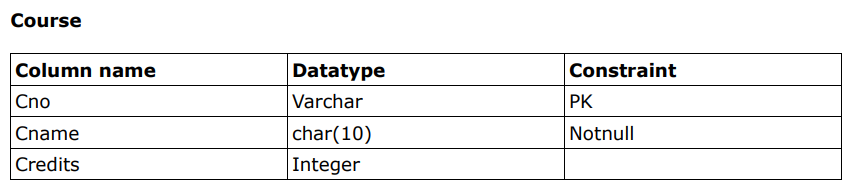
**sno VARCHAR PRIMARY KEY,**

**sname VARCHAR NOT NULL,**

**age INT CHECK(age > 0),**

**gender CHAR CHECK(gender IN ('M','F'))**

**)**

****

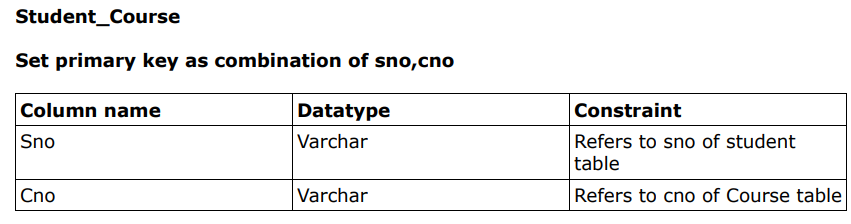
**CREATE TABLE COURSE(**

**cno VARCHAR PRIMARY KEY,**

**canme CHAR(10) NOT NULL,**

**credits INT**

**)**

****

**CREATE TABLE Student\_Course (**

**sno VARCHAR,**

**cno VARCHAR,**

**PRIMARY KEY (sno, cno),**

**FOREIGN KEY (sno) REFERENCES STUDENT(sno),**

**FOREIGN KEY (cno) REFERENCES COURSE(cno)**

**);**

****

**ALTER TABLE COURSE**

**ALTER COLUMN cname TYPE VARCHAR;**

****

**ALTER TABLE COURSE**

**ADD CONSTRAINT check\_credits CHECK(credits > 0)**

****

**ALTER TABLE Student**

**ADD COLUMN dob DATE,**

**ADD COLUMN cgpa DECIMAL;**

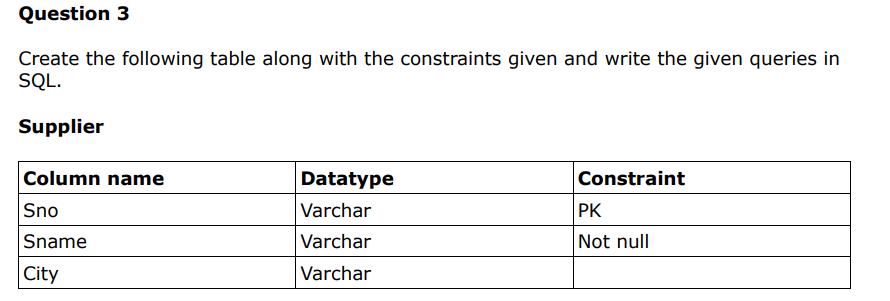
****

**ALTER TABLE STUDENT**

**DROP COLUMN age;**

****

**SELECT dob,sno FROM STUDENT WHERE sname = 'Rahul'**

****

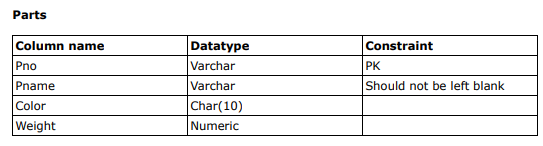
**CREATE TABLE supplier(**

**sno VARCHAR PRIMARY KEY,**

**sname VARCHAR NOT NULL,**

**CITY VARCHAR**

**);**

****

**CREATE TABLE parts(**

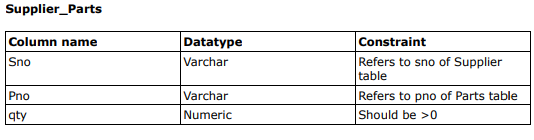
**pno VARCHAR PRIMARY KEY,**

**pname VARCHAR NOT NULL,**

**color CHAR(10),**

**weight NUMERIC**

**);**

****

**CREATE TABLE supplier\_parts(**

**sno VARCHAR,**

**pno VARCHAR,**

**qty NUMERIC,**

**CHECK (qty > 0),**

**FOREIGN KEY (sno) REFERENCES supplier(sno),**

**FOREIGN KEY (pno) REFERENCES parts(pno)**

**);**

****

**ALTER TABLE supplier\_parts**

**ADD COLUMN date DATE;**

****

**ALTER TABLE supplier\_parts**

**RENAME TO parts\_supplied;**

****

**SELECT sname FROM supplier WHERE city LIKE 'T%A';**

****

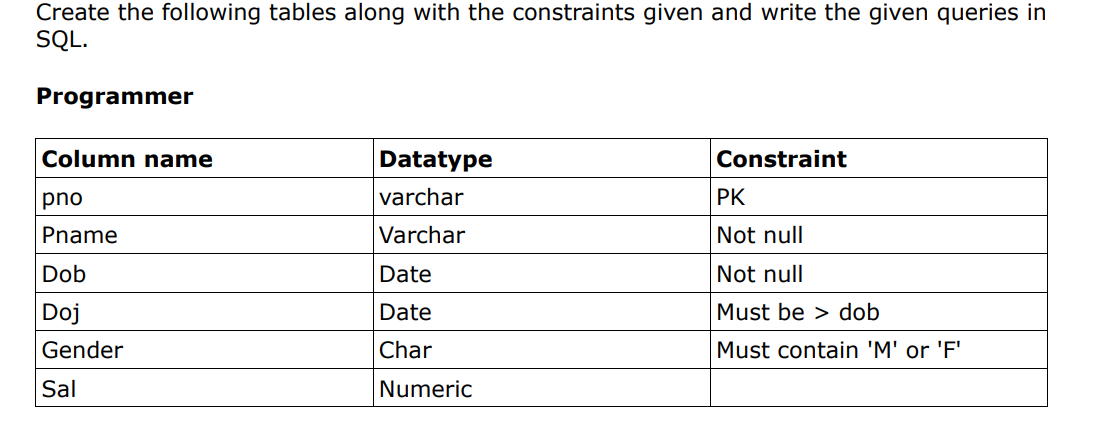
**DROP TABLE parts\_supplied;**

****

**ALTER TABLE supplier**

**ALTER COLUMN sname TYPE VARCHAR(25);**

****

****

**CREATE TABLE programmer(**

**pno VARCHAR PRIMARY KEY,**

**pname VARCHAR NOT NULL,**

**dob DATE NOT NULL,**

**doj DATE NOT NULL,**

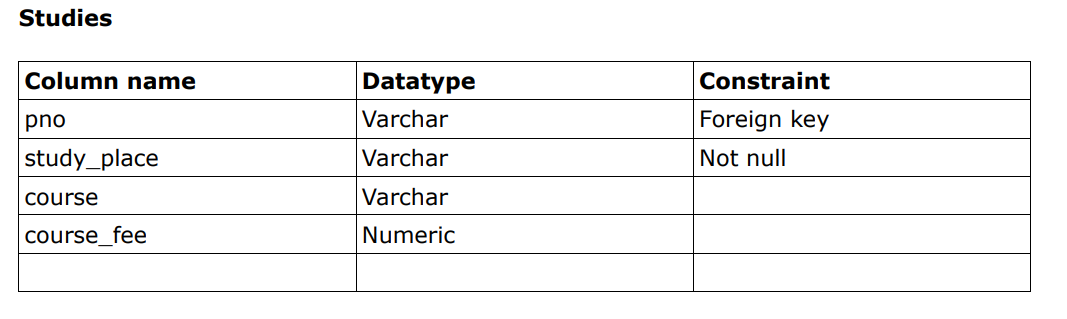
**gender CHAR,**

**sal NUMERIC,**

**CONSTRAINT doj\_check CHECK(doj > dob),**

**CONSTRAINT gender\_check CHECK(gender IN('M','F'))**

**);**

****

**CREATE TABLE studies(**

**pno VARCHAR,**

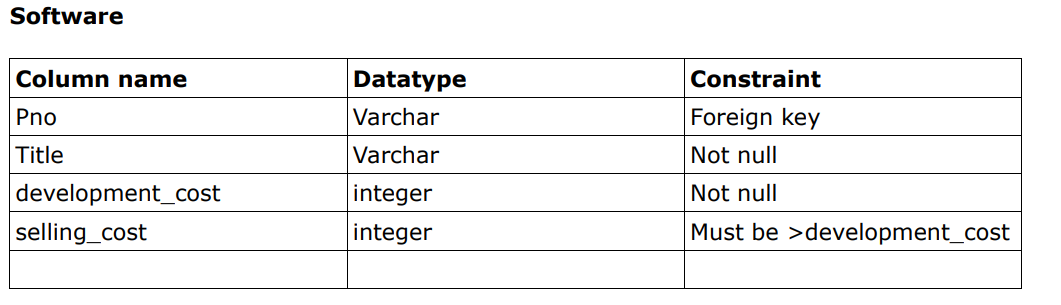
**study\_place VARCHAR,**

**course VARCHAR,**

**course\_fee NUMERIC,**

**FOREIGN KEY(pno) REFERENCES programmer(pno)**

**);**

****

**CREATE TABLE software(**

**pno VARCHAR,**

**title VARCHAR NOT NULL,**

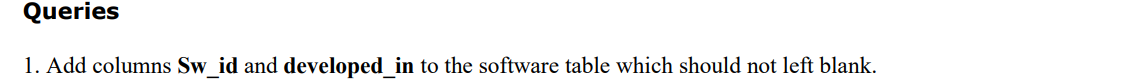
**development\_cost INT NOT NULL,**

**selling\_cost INT,**

**FOREIGN KEY (pno) REFERENCES programmer(pno),**

**CONSTRAINT selling\_check CHECK(selling\_cost > development\_cost)**

**);**

****

**ALTER TABLE software**

**ADD COLUMN sw\_id VARCHAR NOT NULL,**

**ADD COLUMN developed\_in VARCHAR NOT NULL;**

**id**

****

**ALTER TABLE software**

**ADD CONSTRAINT prime PRIMARY KEY(sw\_id);**

****

**ALTER TABLE software**

**DROP CONSTRAINT selling\_check;**

****

**ALTER TABLE programmer**

**RENAME COLUMN doj TO hire\_date;**