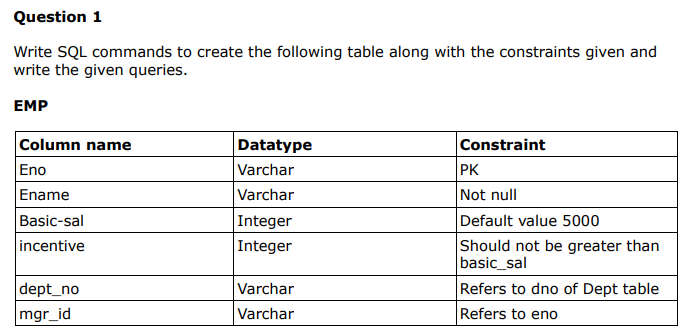
**22AIE303 - DATABASE MANAGEMENT SYSTEMS**

**LAB 1**

**Name : Anuvind M P**

**Roll no : AM.EN.U4AIE22010**

****

CREATE TABLE EMP(

eno VARCHAR PRIMARY KEY,

ename VARCHAR NOT NULL,

basic-sal INT DEFAULT '5000',

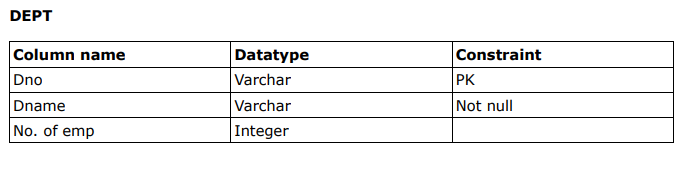
incentive INT CHECK(incentive <= basic\_sal),

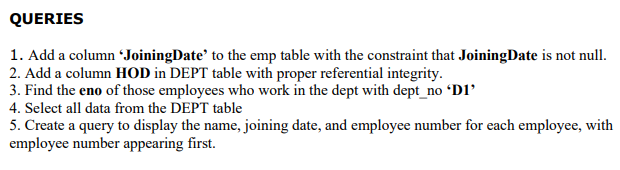
dept\_no VARCHAR,

mgr\_id VARCHAR,

FOREIGN KEY dept\_no REFERENCES DEPT(dno),

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

****

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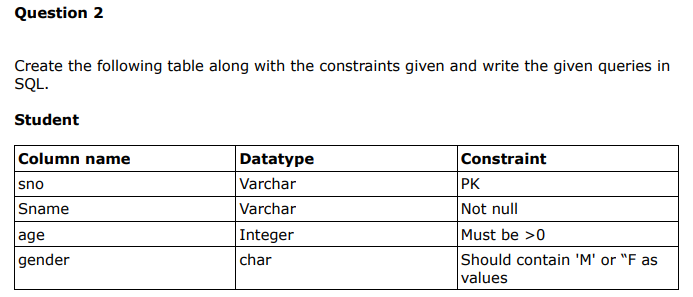
1. ALTER TABLE EMP ADD JoiningDate DATE NOT NULL;
2. ALTER TABLE DEPT ADD HOD VARCHAR, ADD FOREIGN KEY (HOD) REFERENCES EMP(eno);
3. SELECT eno FROM EMP WHERE dept\_no = 'D1';
4. SELECT \* FROM DEPT;
5. SELECT eno, ename, joiningdate FROM EMP

CREATE TABLE DEPT(

dno VARCHAR PRIMARY KEY,

dname VARCHAR NOT NULL,

no\_of\_employees INT );

****

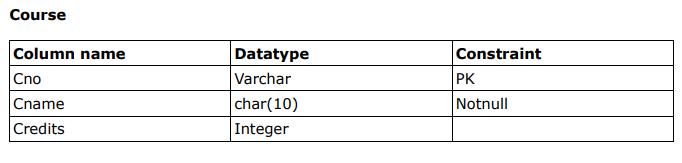
CREATE TABLE STUDENT(

sno VARCHAR PRIMARY KEY,

sname VARCHAR NOT NULL,

age INT CHECK(age > 0),

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

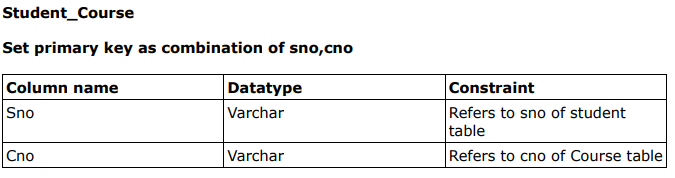
****

CREATE TABLE COURSE(

cno VARCHAR PRIMARY KEY,

canme CHAR(10) NOT NULL,

credits INT );

****

CREATE TABLE Student\_Course (

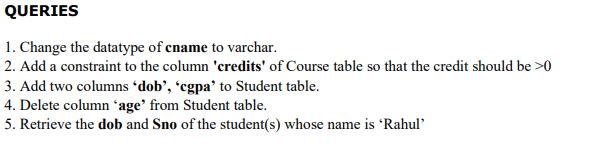
sno VARCHAR,

cno VARCHAR,

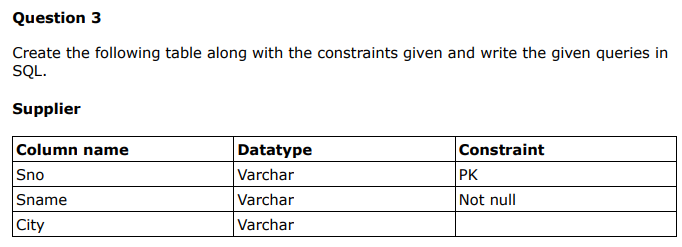
PRIMARY KEY (sno, cno),

FOREIGN KEY (sno) REFERENCES STUDENT(sno),

FOREIGN KEY (cno) REFERENCES COURSE(cno) );

****

1. ALTER TABLE COURSE ALTER COLUMN cname TYPE VARCHAR;
2. ALTER TABLE COURSE ADD CONSTRAINT check\_credits CHECK(credits > 0)
3. ALTER TABLE Student ADD COLUMN dob DATE, ADD COLUMN cgpa DECIMAL;
4. ALTER TABLE STUDENT DROP COLUMN age;
5. SELECT dob,sno FROM STUDENT WHERE sname = 'Rahul';

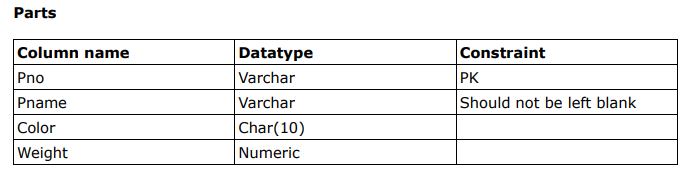
****

CREATE TABLE supplier(

sno VARCHAR PRIMARY KEY,

sname VARCHAR NOT NULL,

CITY VARCHAR );

****

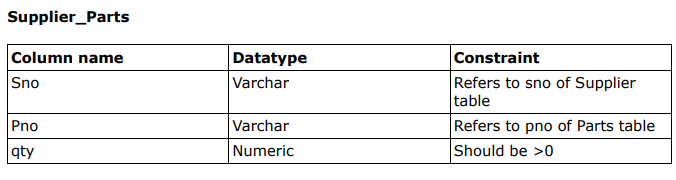
CREATE TABLE parts(

pno VARCHAR PRIMARY KEY,

pname VARCHAR NOT NULL,

color CHAR(10),

weight NUMERIC );

****

CREATE TABLE supplier\_parts(

sno VARCHAR,

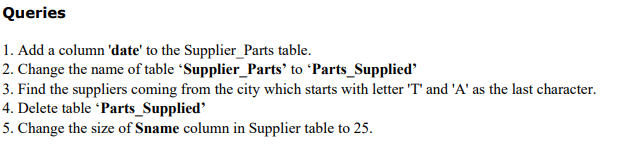
pno VARCHAR,

qty NUMERIC,

CHECK (qty > 0),

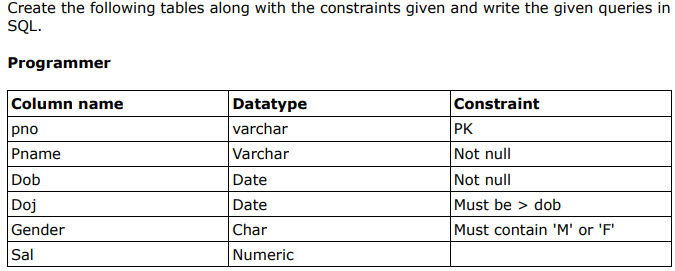
FOREIGN KEY (sno) REFERENCES supplier(sno),

FOREIGN KEY (pno) REFERENCES parts(pno) );

****

1. ALTER TABLE supplier\_parts ADD COLUMN date DATE;
2. ALTER TABLE supplier\_parts RENAME TO parts\_supplied;
3. SELECT sname FROM supplier WHERE city LIKE 'T%A';
4. DROP TABLE parts\_supplied;
5. ALTER TABLE supplier ALTER COLUMN sname TYPE VARCHAR(25);

****

****

CREATE TABLE programmer(

pno VARCHAR PRIMARY KEY,

pname VARCHAR NOT NULL,

dob DATE NOT NULL,

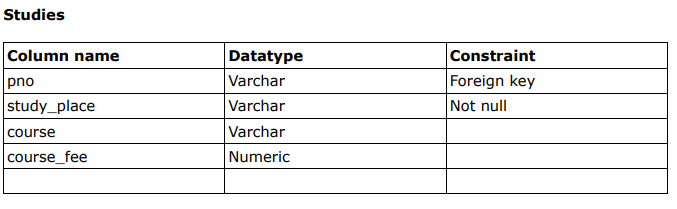
doj DATE NOT NULL,

gender CHAR,

sal NUMERIC,

CONSTRAINT doj\_check CHECK(doj > dob),

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

****

CREATE TABLE studies(

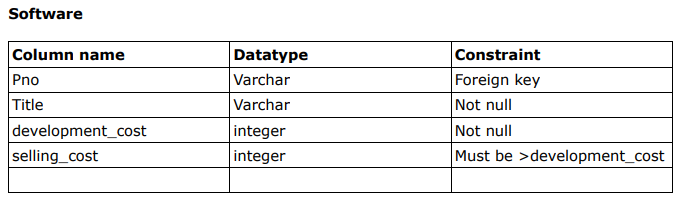
pno VARCHAR,

study\_place VARCHAR,

course VARCHAR,

course\_fee NUMERIC,

FOREIGN KEY(pno) REFERENCES programmer(pno) );

****

CREATE TABLE software(

pno VARCHAR,

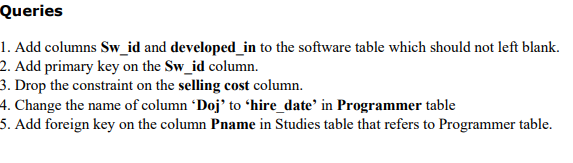
title VARCHAR NOT NULL,

development\_cost INT NOT NULL,

selling\_cost INT,

FOREIGN KEY (pno) REFERENCES programmer(pno),

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

****

1. ALTER TABLE software ADD COLUMN sw\_id VARCHAR NOT NULL, ADD COLUMN developed\_in VARCHAR NOT NULL;
2. ALTER TABLE software ADD CONSTRAINT prime PRIMARY KEY(sw\_id);
3. ALTER TABLE software DROP CONSTRAINT selling\_check;
4. ALTER TABLE programmer RENAME COLUMN doj TO hire\_date