Assignment-2
DBMS(CSP362)

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1. In student relation set sid as your primary key and set total credit field as not null.

ALTER TABLE student
ADD PRIMARY KEY (S_ID),
MODIFY TOT_CRED int NOT NULL;

2. In course relation set cid as your primary key.

ALTER TABLE course
ADD PRIMARY KEY (c_id);

3. In Instructor relation set inst id as primary key.

ALTER TABLE INSTRUCTOR
ADD PRIMARY KEY (INST_ID);

4. In takes relation set sid, cid, sec-id ,as your primary key.

ALTER TABLE takes
ADD PRIMARY KEY (s_id,c_id,sec_id);

5. In department relation set dname as primary key.

ALTER TABLE department
ADD PRIMARY KEY (d_name);

6. In section relation set cid ,sec id as primary key.

ALTER TABLE section
ADD PRIMARY KEY (c_id,sec_id);

7. In teaches relation set inst-id, cid, sec-id as primary key.

ALTER TABLE teaches
ADD PRIMARY KEY (INST_ID,C_ID,SEC_ID);
select * from teaches;

8. Set foreign key to each attribute which is referring to some other relations attribute with an arrow, as shown in below figure.

ALTER TABLE takes
ADD FOREIGN KEY (S_ID) REFERENCES student(S_ID),
ADD FOREIGN KEY (C_ID) REFERENCES section(C_ID),
ADD FOREIGN KEY (SEC_ID) REFERENCES section(SEC_ID),
ADD FOREIGN KEY (SEM) REFERENCES section(SEM);

ALTER TABLE teaches
ADD FOREIGN KEY (C_ID) REFERENCES section(C_ID),
ADD FOREIGN KEY (SEC_ID) REFERENCES section(SEC_ID),
ADD FOREIGN KEY (SEM) REFERENCES section(SEM),
ADD FOREIGN KEY (INST_ID) REFERENCES instructor(INST_ID);

ALTER TABLE section
ADD FOREIGN KEY (C_ID) REFERENCES course(C_ID);

ALTER TABLE course
ADD FOREIGN KEY (D_NAME) REFERENCES
department(D_NAME);

ALTER TABLE instructor
ADD FOREIGN KEY (D_NAME) REFERENCES
department(D_NAME);

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ALTER TABLE student
ADD FOREIGN KEY (D_NAME) REFERENCES
department(D_NAME);
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