Professor table

create table PROFESSOR( prof\_id varchar(5) NOT NULL PRIMARY KEY CHECK(LENGTH(prof\_id)=5), prof\_name varchar(255), email varchar(255) UNIQUE CHECK (email LIKE "%\_\_@\_\_%"), mobile varchar(10) UNIQUE CHECK (LENGTH(mobile)=10), speciality varchar(255), dept\_id varchar(5) NOT NULL CHECK(LENGTH(dept\_id)=5) );

department table

create table DEPARTMENT ( dept\_id varchar(5) NOT NULL, Dname varchar(255), SCode varchar(5), prof\_id varchar(5), PRIMARY KEY (dept\_id), FOREIGN KEY (SCode) REFERENCES SCHOOL (SCode) ON DELETE SET NULL);

Query OK, 0 rows affected (0.03 sec)

mysql> alter table DEPARTMENT ADD FOREIGN KEY (prof\_id) REFERENCES PROFESSOR (prof\_id) ON DELETE SET NULL;

school table

mysql> create table SCHOOL ( SCode varchar(5) NOT NULL, Scl\_name varchar(255), prof\_id varchar(5), Location varchar(255), PRIMARY KEY (SCode), FOREIGN KEY (prof\_id) REFERENCES PROFESSOR (prof\_id) ON DELETE SET NULL );

course table

mysql> create table COURSE(Crs\_code varchar(5) NOT NULL,

-> Cr\_name varchar(255), Description varchar(255),

-> Credits varchar(10),

-> Hours timestamp NOT NULL,

-> PRIMARY KEY (Cr\_name)

-> );

semester table

create table SEMESTER ( Sem\_code varchar(7) NOT NULL PRIMARY KEY, Term varchar(7) NOT NULL, Year varchar(5) NOT NULL, Sdate varchar(10) not null, Edate varchar(10) not null, constraint chk1 check (Sem\_code LIKE 'WIN%' OR Sem\_code LIKE 'FALL%'), constraint chk2 check (Term in ("Winter", "Fall")));

class table

create table CLASS (Cls\_code varchar(5) NOT NULL PRIMARY KEY, Slot varchar(5), Stime timestamp, Etime timestamp, Crs\_code varchar(5), Prof\_id

varchar(5), Room\_no varchar(5), Sem\_code varchar(7), Day\_of\_week varchar(5), FOREIGN KEY (Crs\_code) REFERENCES COURSE (Crs\_code) ON DELETE SET NULL,

constraint daychk1 check (Day\_of\_week in ("MON","TUE","WED","THUR","FRI","SAT")) );

Query OK, 0 rows affected (0.03 sec)

mysql> alter table CLASS ADD FOREIGN KEY (Prof\_id) REFERENCES PROFESSOR (prof\_id) ON DELETE SET NULL;

Query OK, 0 rows affected (0.06 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table CLASS ADD FOREIGN KEY (Sem\_code) REFERENCES SEMESTER (Sem\_code) ON DELETE SET NULL;

Query OK, 0 rows affected (0.07 sec)

Records: 0 Duplicates: 0 Warnings: 0

STUDENT TABLE

mysql> create table STUDENT (

-> Reg\_no varchar(10) NOT NULL,

-> Sname varchar(255),

-> Address varchar(255),

-> DOB varchar(10),

-> email varchar(255) UNIQUE CHECK (email LIKE "%\_\_@\_\_%"),

-> mobile varchar(10) UNIQUE CHECK (LENGTH(mobile)=10),

-> Dept\_id varchar(5),

-> prof\_id varchar(5),

-> PRIMARY KEY (Reg\_no),

-> FOREIGN KEY (Dept\_id) REFERENCES DEPARTMENT (dept\_id) ON DELETE SET NULL,

-> FOREIGN KEY (prof\_id) REFERENCES PROFESSOR (prof\_id) ON DELETE SET NULL

-> );

ENROLL TABLE

CREATE TABLE ENROLL ( Cls\_code varchar(5) NOT NULL, Reg\_no varchar(5) NOT NULL, Enroll\_time timestamp default current\_timestamp, Grade varchar(2) CHECK (Grade in ('S', 'A', 'B', 'C', 'D', 'E', 'F')), PRIMARY KEY (Cls\_code, Reg\_no) );

STUDENT\_VISA  
mysql> CREATE TABLE STUDENT\_VISA (

-> Reg\_no varchar(5) NOT NULL PRIMARY KEY,

-> Visa\_status int check(Visa\_status in (0,1)));

PROGRAMME TABLE

mysql> create table PROGRAMME(Prog\_code varchar(5) NOT NULL PRIMARY KEY, Prog\_name varchar(255), Prog\_preamble varchar(255), Scode varchar(7), Dept\_id varchar(5), FOREIGN KEY (Dept\_id) REFERENCES DEPARTMENT (dept\_id) ON DELETE SET NULL, FOREIGN KEY (Scode) REFERENCES SEMESTER (Sem\_code) ON DELETE

SET NULL);

EXAMPLE OF VIEW:

drop view yourview;

CREATE VIEW yourview AS

SELECT Customers.first\_name,

Customers.country, Orders.item, Shippings.status

FROM

Customers, Orders, Shippings

WHERE Customers.customer\_id = Orders.customer\_id AND Customers.customer\_id = Shippings.customer;

select \* from yourview;