```
create schema course_allocation;

set search_path to course_allocation;

create table Categories(
	CategoryId integer primary key,
	CategoryName varchar(50) not null
);

create table Programs(
	ProgramId integer primary key,
	ProgramName varchar(50) not null,
	PLabel integer
);

create table Courses(
	CourseNo varchar(10) primary key,
	CourseName varchar(120) not null,
	Credit varchar(15) not null,
	credit_lec numeric(5,2),
	credit_tutorial numeric(5,2),
	credit_lab numeric(5,2),
	credit_total numeric(5,2)
);

create table Faculty(
	ShortName varchar(15) primary key,
	FullName varchar(50) not null,
	VisitingFaculty char(1)
);

create table CourseType(
	CourseNo varchar(10) not null,
	ProgramId integer not null,
	CategoryId integer not null,

	FOREIGN KEY(CourseNo) references Courses(CourseNo) on delete set null on update
cascade,
	FOREIGN KEY(ProgramId) references Programs(ProgramId) on delete set null on
update cascade,
	FOREIGN KEY(CategoryId) references Categories(CategoryId) on delete set null on
update cascade,
```

```
	PRIMARY KEY(CourseNo,CategoryId,ProgramId)
);

create table FacultyAssigned(
	CourseNo varchar(10) not null,
	ShortName varchar(5) not null,
	Section varchar(2),

	FOREIGN KEY(CourseNo) references Courses(CourseNo) on delete set null on update
cascade,
	FOREIGN KEY(ShortName) references Faculty(ShortName) on delete set null on
update cascade,

	PRIMARY KEY(CourseNo,ShortName)
);

create table Offer(
	CourseNo varchar(10) not null,
	ProgramId integer not null,
	Semester integer not null,
	Term varchar(10) not null,

	FOREIGN KEY(CourseNo) references Courses(CourseNo) on delete set null on update
cascade,
	FOREIGN KEY(ProgramId) references Programs(ProgramId) on delete set null on
update cascade,

	PRIMARY KEY(CourseNo,ProgramId,Semester,Term)
);

create table OpenFor(
	CourseNo varchar(10) not null,
	ProgramId integer not null,
	Semester integer not null,
	Term varchar(10) not null,

	FOREIGN KEY(CourseNo) references Courses(CourseNo) on delete set null on update
cascade,
	FOREIGN KEY(ProgramId) references Programs(ProgramId) on delete set null on
update cascade,

	PRIMARY KEY(CourseNo,ProgramId,Semester,Term)
);
```

```
create schema time_table;

set search_path to time_table;

create table Rooms(
	roomno varchar(10) primary key,
	capacity integer default 70
);


create table roomassigned(
	roomno varchar(10),
	courseno varchar(10),
	section varchar(2),
	FOREIGN KEY(courseno) references course_allocation.Courses(CourseNo) on delete
cascade on update cascade,

	primary key(roomno,courseno,section)
);

create table slotassigned(
	slotno varchar(5),
	courseno varchar(10),
	FOREIGN KEY(courseno) references course_allocation.Courses(CourseNo) on delete
cascade on update cascade,

	primary key(slotno,courseno)
);

create table timetable(
	day varchar(7),
	hour varchar(5),
	slotno varchar(5),

	primary key(day,hour,slotno)
);
```