**Postgres query’s**

**Class table creation:**

create table class(class\_no serial primary key,standard integer not null,section varchar(10) not null);

**Class table value insertion:**

insert into class(standard,section) values(1,’A’),(1,’B’),…….;

**Students table creation:**

create table students(id serial primary key,name varchar(20) not null,class\_no integer references class(class\_no);

**Students table value insertion:**

insert into class(name,class\_no) values(‘student\_1’,1),(student,2),…….;

**Teachers table creation:**

create table teachers(teacher\_id serial primary key,teacher\_name varchar(20) not null);

**Teachers table value insertion:**

insert into teachers(name) values(‘teacher\_1’),(‘teacher\_2’),……….;

**Subjects table creation:**

create table subjects(subject\_id serial primary key,subject\_name varchar(20) not null);

**subjects table value insertion:**

insert into subjects(subject\_name varchar(20) not null) values(‘english’),(‘maths’),……;

**Students table creation:**

create table students(student\_id serial primary key,student\_name varchar(20) not null);

**Students table value insertion:**

insert into students(name) values(‘stu\_1’),(‘stu\_2’),………;

**Phonenumbers table creation:**

create table phonenumbers(phone\_id serial primary key,phone\_number integer not null);

**Phonenumbers table value insertion:**

insert into phonenumbers(phone\_number) values(‘101010100’),(‘212112223’),……;

**studentsmapping table creation:**

create table studentsmapping(si\_no serial primary key,student\_id integer references students(student\_id),phone\_id integer references phonenumbers(phone\_id));

**studentsmapping table value insertion:**

insert into studentsmapping(student\_id,phone\_id) values(1,1),(1,2),(2,3),(2,4),……;

**Teachersmapping table creation:**

create table teachersmapping(si\_no serial primary key,teacher\_id integer references teachers(teacher\_id),phone\_id integer references phonenumbers(phone\_id));

**TeachersMapping table value insertion:**

insert into teachersmapping(teacher\_id,phone\_id) values(1,5),(1,6),(2,7),(2,8),…….;

**ClassTeachersMapping table creation:**

create table classteachersmapping(si\_no serial primary key,teacher\_id integer references teachers(teacher\_id),subject\_id integer references subjects(subject\_id));

**ClassTeachersMapping table value insertion:**

insert into classteachermapping(teacher\_id,subject\_id) values(1,1),(2,1),…….;

**Getting Class teachers for 10th standard:**

select class.class\_no,class.standard,class.section,teachers.teacher\_name,subjects.subject\_name from classteachersmapping

inner join class on class.class\_no=classteachersmapping.class\_no

inner join teachers on teachers.teacher\_id=classteachersmapping.teacher\_id

inner join subjects on subjects.subject\_code=classteachersmapping.subject\_code

where class.section='B' AND class.standard=10;