-- Creates a database

create database providers;

-- use specific database

use jerseymanagement;

-- creates the table

create table jerseyTypes;

-- use the specific database

use providers;

-- Shows number of databases/Schemas

show databases;

-- Creates the table with the primary key and the datatypes

create table practitioner(provider\_k varchar(12) primary key,

firstname varchar(100),

lastname varchar(100),

npi varchar(15),

ssn varchar(10),

degree varchar(20)

);

-- Alters the table for adding a new column

Alter table practitioner add specialty varchar(20);

-- Describes the table

describe practitioner;

-- Creating a table

create table reftable(reftable\_k varchar(20) primary key, specialtyname varchar(20),shortDescription varchar(20));

-- Altering the table by modifying the column

alter table practitioner modify column ssn varchar(10) unique;

-- Inserting the practitioner records

insert into practitioner(provider\_k,firstname,npi,ssn,degree) values("R008234223","Vineela","3457291015","008234223","DO");

insert into practitioner(provider\_k,firstname,npi,ssn,degree) values("R008234224","Anoop","3457291016","008234224","MD");

insert into practitioner(provider\_k,firstname,npi,ssn,degree) values("R008234225","Padma","3457291017","008234226","APRN");

insert into practitioner(provider\_k,firstname,npi,ssn,degree) values("R008234226","Ashok","3457291018","008234227","OT");

insert into practitioner(provider\_k,firstname,npi,ssn,degree) values("R008234227","Bablu","3457291019","008234228","RN");

-- For fetching the information

select \* from practitioner;

-- Updating a practitioner record

update practitioner set lastname="Alla" where provider\_k="R008234224";

update practitioner set lastname="Sridhara" where provider\_k="R008234226";

-- Deleting the record from the table

delete from practitioner where provider\_k="R008234227";

-- Order by

select lastname,firstname from practitioner order by firstname DESC;

-- Characters like AND, OR <,>,>=,<=,<> can be used in the where clause

select firstname from practitioner where degree <> "APRN";

select lastname from practitioner where degree ="DO" AND firstname="Vineela";

-- IN clause

select \* from practitioner where degree IN("APRN","DO","MD");

create table Address(

address\_k int primary key,

addressline1 varchar(100),

addressline2 varchar(100),

taxid int not null unique

);

create table education(

edu\_k varchar(20) Primary Key,

Educationname varchar(200),

Degreename varchar(50),

address\_k int,

foreign key(address\_k) references address(address\_k) on delete set null

);

alter table address add zipcode int;

describe address;

describe education;

create table reftable(

reftable\_k int Primary key,

specialty varchar(200),

shortDescription varchar(200),

degree\_k varchar(20),

foreign key(degree\_k) references education(edu\_k) on delete set null

);

create table experience(

provider\_k varchar(12),

degree\_k varchar(20),

experience int,

primary key(provider\_k,degree\_k),

foreign key(provider\_k) references practitioner(provider\_k) on delete cascade,

foreign key(degree\_k) references education(edu\_k) on delete cascade

);

alter table practitioner drop column degree;

alter table practitioner drop column specialty;

alter table practitioner add degree\_k varchar(20);

alter table practitioner add constraint degree\_k foreign key(degree\_k)references education(edu\_k) on delete set null;

alter table practitioner add specialty\_k int;

alter table practitioner add constraint specialty\_k foreign key(specialty\_k)references reftable(reftable\_k)on delete set null;

alter table practitioner add address\_k int;

alter table practitioner add constraint address\_k foreign key(address\_k)references address(address\_k) on delete set null;

-- selecting first 5 practitioner

select \* from practitioner LIMIT 5;

-- find the last name and first name of all the pracs

select firstname,lastname from practitioner;

select ssn from practitioner;

select ssn,firstname from practitioner where firstname like "A%";

select distinct lastname from practitioner;

select count(provider\_k) from practitioner;

select avg(experience) from experience;

select COUNT(Educationname),Educationname from education group by educationname;

select \* from education;

select \* from practitioner;

select \* from reftable;

select firstname from practitioner UNION select specialty from reftable;

select practitioner.provider\_k,practitioner.firstname,reftable.specialty

from practitioner

left join reftable

on practitioner.specialty\_k=reftable.reftable\_k;

select experience.provider\_k,education.degreename,practitioner.firstname from experience

join education

on experience.degree\_k=education.edu\_k

join practitioner

on experience.provider\_k=practitioner.provider\_k

where experience >=10;

select practitioner.firstname,address.addressline1,reftable.specialty

from ((practitioner join address on practitioner.address\_k=address.address\_k)

join reftable on practitioner.specialty\_k=reftable.reftable\_k

);