-- Database: University

-- DROP DATABASE "University";

CREATE DATABASE "University"

WITH

OWNER = postgres

ENCODING = 'UTF8'

LC\_COLLATE = 'Kazakh\_Kazakhstan.utf8'

LC\_CTYPE = 'Kazakh\_Kazakhstan.utf8'

TABLESPACE = pg\_default

CONNECTION LIMIT = -1;

CREATE table Students1(stud\_id int Primary key,

first\_name Varchar(50),

last\_name Varchar(50),

student\_GPA integer,

group\_id integer,

gen\_id integer);

FOREIGN key (group\_id) REFERENCES Groups(group\_id);

FOREIGN key (gen\_id) REFERENCES General\_information(gen\_id);

CREATE table Groups (group\_id int Primary key,

group\_name Varchar(50),

Amount\_of\_students integer,

group\_activity integer,

gen\_id integer,

stud\_id integer);

FOREIGN key (stud\_id) REFERENCES Students(stud\_id);

FOREIGN key (gen\_id) REFERENCES General\_information(gen\_id);

CREATE table Phone (Phone\_id int Primary key,

phone\_num integer,

stud\_id integer,

ad\_id integer);

FOREIGN key (stud\_id) REFERENCES Students1(stud\_id),

FOREIGN key (ad\_id) REFERENCES Advisors(ad\_id));

CREATE table Advisors (add\_id int Primary key,

department Varchar(50),

student\_GPA integer,

group\_id integer);

FOREIGN key (group\_id) REFERENCES Groups(group\_id));

/\*\*/

CREATE table General\_information(gen\_id int Primary key,

first\_name Varchar(50),

last\_name Varchar(50),

date\_of\_birth Date,

stud\_id integer,

ad\_id integer,

teacher\_id integer);

FOREIGN key (stud\_id) REFERENCES Students1(stud\_id),

FOREIGN key (ad\_id) REFERENCES Advisors(ad\_id),

FOREIGN key (teacher\_id) REFERENCES Teachers(teacher\_id));

CREATE table Teachers (teacher\_id int Primary key,

salary integer,

stage integer,

stud\_id integer,

group\_id integer,

gen\_id integer,

fac\_id integer,

sub\_id integer);

FOREIGN key (stud\_id) REFERENCES Students1(stud\_id),

FOREIGN key (gen\_id) REFERENCES General\_information(gen\_id),

FOREIGN key (fac\_id) REFERENCES Faculties(fac\_id),

FOREIGN key (sub\_id) REFERENCES Faculties(sub\_id),

FOREIGN key (group\_id) REFERENCES Groups(group\_id));

CREATE table Faculties (fac\_id int Primary key,

fac\_name Varchar(50),

fac\_leader Varchar(50),

fac\_location Varchar(50),

fac\_priority Boolean,

sub\_id integer,

teacher\_id integer);

FOREIGN key (sub\_id) REFERENCES Faculties(sub\_id),

FOREIGN key (teacher\_id) REFERENCES Teachers(teacher\_id));

CREATE table Subjects (sub\_id int Primary key,

first\_name Varchar(50),

sub\_name Varchar(50),

sub\_credits integer,

teachers\_id integer);

FOREIGN key (teacher\_id) REFERENCES Teachers(teacher\_id));

delete from Students

ALTER TABLE Students RENAME TO Students

ALTER TABLE Students ADD COLUMN group\_id int;

ALTER TABLE Students ADD COLUMN gen\_id int;

ALTER TABLE Phone ADD COLUMN ad\_id int;

ALTER TABLE Groups ADD COLUMN group\_id int Primary key;

ALTER TABLE Subjects RENAME COLUMN teachers\_id to teacher\_id;

ALTER TABLE Students ADD CONSTRAINT distfk FOREIGN KEY (group\_id) REFERENCES Groups (group\_id);

ALTER TABLE Students ADD CONSTRAINT distfk FOREIGN key (gen\_id) REFERENCES General\_information(gen\_id);

ALTER TABLE Groups ADD CONSTRAINT distfk FOREIGN key (stud\_id) REFERENCES Students(stud\_id);

ALTER TABLE Groups ADD CONSTRAINT distfk FOREIGN key (gen\_id) REFERENCES General\_information(gen\_id);

ALTER TABLE Phone ADD CONSTRAINT distfk FOREIGN key (stud\_id) REFERENCES Students(stud\_id);

ALTER TABLE Phone ADD CONSTRAINT distfk FOREIGN key (ad\_id) REFERENCES Advisors(ad\_id);

ALTER TABLE Advisors ADD CONSTRAINT distfk FOREIGN key (group\_id) REFERENCES Groups(group\_id);

ALTER TABLE General\_information ADD CONSTRAINT distfk FOREIGN key (stud\_id) REFERENCES Students(stud\_id);

ALTER TABLE General\_information ADD CONSTRAINT distfk FOREIGN key (ad\_id) REFERENCES Advisors(ad\_id);

ALTER TABLE General\_information ADD CONSTRAINT distfk FOREIGN key (teacher\_id) REFERENCES Teachers(teacher\_id);

ALTER TABLE Teachers ADD CONSTRAINT distfk FOREIGN key (stud\_id) REFERENCES Students(stud\_id);

ALTER TABLE Teachers ADD CONSTRAINT distfk FOREIGN key (gen\_id) REFERENCES General\_information(gen\_id);

ALTER TABLE Teachers ADD CONSTRAINT distfk FOREIGN key (fac\_id) REFERENCES Faculties(fac\_id);

ALTER TABLE Teachers ADD CONSTRAINT distfk FOREIGN key (sub\_id) REFERENCES Faculties(sub\_id);

ALTER TABLE Teachers ADD CONSTRAINT distfk FOREIGN key (group\_id) REFERENCES Groups(group\_id));

ALTER TABLE Faculties ADD CONSTRAINT distfk FOREIGN key (sub\_id) REFERENCES Subjects(sub\_id);

ALTER TABLE Faculties ADD CONSTRAINT distfk FOREIGN key (teacher\_id) REFERENCES Teachers(teacher\_id);

ALTER TABLE Subjects ADD CONSTRAINT distfk FOREIGN key (teacher\_id) REFERENCES Teachers(teacher\_id);

ALTER TABLE Students DROP COLUMN stud\_id RESTRICT;

ALTER TABLE Students DROP COLUMN gen\_id RESTRICT;

ALTER TABLE Groups DROP COLUMN group\_id RESTRICT;

ALTER TABLE Advisors DROP COLUMN ad\_id RESTRICT;

ALTER TABLE Groups DROP COLUMN gen\_id RESTRICT;

ALTER TABLE Subjects DROP COLUMN first\_name RESTRICT;

insert into Students values(1,'Davlat','Ushurbakiev',4)

insert into Students values(3,'Rafael','Toijanov',4)

insert into Groups values('ITSE1909',10,12,null,1)

insert into Phone values(1,2696964)

insert into Advisors values(1,'Kib')

insert into General\_information values(1,'Davlat','Ushurbakiev','19.03.2000')

insert into Teachers values(1,10000,10)

insert into Faculties values(1,'Kib','Davlat','IITU',TRUE)

insert into Subjects values(1,'SQL',3)

ALTER TABLE Students ADD foreign key (group\_id) REFERENCES Groups(group\_id)

ALTER TABLE Students ADD foreign key (gen\_id) REFERENCES General\_information(gen\_id)

ALTER TABLE Groups ADD FOREIGN key (stud\_id) REFERENCES Students(stud\_id)

ALTER TABLE Groups ADD foreign key (group\_id) REFERENCES Groups(group\_id)

ALTER TABLE Phone ADD FOREIGN key (stud\_id) REFERENCES Students(stud\_id);

ALTER TABLE Phone ADD FOREIGN key (ad\_id) REFERENCES Advisors(add\_id);

ALTER TABLE Advisors ADD FOREIGN key (group\_id) REFERENCES Groups(group\_id);

ALTER TABLE General\_information ADD FOREIGN key (stud\_id) REFERENCES Students(stud\_id);

ALTER TABLE General\_information ADD FOREIGN key (ad\_id) REFERENCES Advisors(add\_id);

ALTER TABLE General\_information ADD FOREIGN key (teacher\_id) REFERENCES Teachers(teacher\_id);

ALTER TABLE Teachers ADD FOREIGN key (stud\_id) REFERENCES Students(stud\_id);

ALTER TABLE Teachers ADD FOREIGN key (gen\_id) REFERENCES General\_information(gen\_id);

ALTER TABLE Teachers ADD FOREIGN key (fac\_id) REFERENCES Faculties(fac\_id);

ALTER TABLE Teachers ADD FOREIGN key (sub\_id) REFERENCES Subjects(sub\_id);

ALTER TABLE Teachers ADD FOREIGN key (group\_id) REFERENCES Groups(group\_id);

ALTER TABLE Faculties ADD FOREIGN key (sub\_id) REFERENCES Subjects(sub\_id);

ALTER TABLE Faculties ADD FOREIGN key (teacher\_id) REFERENCES Teachers(teacher\_id);

ALTER TABLE Subjects ADD FOREIGN key (teacher\_id) REFERENCES Teachers(teacher\_id);

update Students set first\_name = 'DavlatUshurbakiev' where stud\_id = 1

update General\_information set last\_name = 'Ushurbakiyev' where stud\_id = 1

delete from Students where stud\_id = null

select \* from Students

select \* from Groups

select \* from Phone

select \* from Advisors

select \* from General\_information

select \* from Teachers

select \* from Faculties

select \* from Subjects













