-- 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)

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);

insert into Students values(4,'Aldiyar','Tagaibekov',3,null,null)

insert into Students values(5,'Aldiyar','Orazbek',4,null,null)

insert into Students values(6,'Elvira','Nugmanova',4,null,null)

insert into Students values(7,'Sanya','sasha',1,null,null)

insert into Students values(8,'Karim','Ilyasov',3,null,null)

insert into Students values(9,'Amirlan','Mukhitdinov',3,null,null)

insert into Students values(10,'Yaly','Kazanova',1,null,null)

insert into Students values(11,'Mariza','Sharipova',0,null,null)

insert into Students values(12,'Malika','Mallim',0,null,null)

insert into Students values(13,'Malika','Tokhtieva',4,null,null)

insert into Groups values('ITSE1910',10,12,null,2),('ITSE1908',10,12,null,3),('ITSE1907',10,12,null,4),('ITSE1906',10,12,null,5),

('ITSE1905',10,12,null,6),('ITSE1904',10,12,null,7),('ITSE1903',10,12,null,8),('ITSE1902',10,12,null,9),('ITSE1901',10,12,null,10)

insert into Phone values(0,2696264),(2,1696964),(3,2496964),(4,2696964),(5,2696664),(6,2456964),(7,26953964),(8,26196964),(9,422696964),(10,260096964)

insert into Advisors values(2,'Kabib'),(3,'Kaiab'),(4,'Kasib'),(5,'Kacib'),(6,'Kaib'),(7,'zKaib'),(8,'Kaib'),(9,'Kcaib'),(10,'Kaib'),(11,'Kai2b')

insert into General\_information values(2,'Davlzat','Ushurbakiev','19.03.2000'),(3,'Davlaat','Ushurbakiev','19.03.2000'),(4,'Davlaaat','Ushurbakiev','19.03.2000'),

(5,'aDavlat','Ushurbakiev','19.03.2000'),(6,'Daaavvlat','Ushurbakiev','19.03.2000'),(7,'Daaavlat','Ushurbakiev','19.03.2000'),(8,'Daaavlat','Ushurbakiev','19.03.2000'),

(9,'Daaavlat','Ushurbakiev','19.03.2000'),(10,'aaaDavlat','Ushurbakiev','19.03.2000')

insert into Teachers values(2,10000,10),(3,10000,10),(4,10000,10),(5,10000,10),(6,10000,10),(7,10000,10),(8,10000,10),(9,10000,10),(10,10000,10)

insert into Faculties values(2,'Vtipo','Davlat','IITU',TRUE),(3,'ads','Davlat','IITU',TRUE),(4,'asdsa','Davlat','IITU',TRUE),(5,'ads','Davlat','IITU',TRUE),

(6,'Kiasb','Davlat','IITU',TRUE),

(7,'Kidsb','Davlat','IITU',TRUE),

(8,'Kisadb','Davlat','IITU',TRUE),

(9,'Kadib','Davlat','IITU',TRUE),

(10,'asdKib','Davlat','IITU',TRUE),

(11,'as','Davlat','IITU',TRUE)

insert into Subjects values(2,'SQL',3), (3,'SQL1',3),(4,'SQ2L',3),(5,'SQ3L',3),(6,'SQ4L',3),(7,'SQ5L',3),(8,'SQ6L',3),(9,'SQ7L',3),(10,'SQ8L',3),(11,'SQL9',3)

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

update General\_information set last\_name = 'Ushurbakiyev111' where gen\_id = 2

update Advisors set department = 'Demons' where add\_id = 3

delete from Students where stud\_id = null

delete from Phone where phone\_id = 9

delete from Subjects where sub\_credits=3 and sub\_name='SQ4L'

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















