create database TV\_BroadCast;

use TV\_BroadCast;

create table Satellite(

Name varchar(150) not null primary key,

Launch\_Date date null,

Launch\_Rocket varchar(150) null,

PositionDegree float not null,

PositionDirection char(1) not null,

Region varchar(150) not null

);

create table Channel(

SatName varchar(150) not null,

ChannelName varchar(150) not null,

Frequency varchar(17) not null,

VideoEncoding varchar(17) not null,

Website varchar(2048) null,

Beam varchar(150) null,

VideoCompression varchar(150) null,

SR varchar(17) null,

FEC char(17) null,

EIRP varchar(150) null,

Primary key (SatName, ChannelName, Frequency, VideoEncoding),

foreign key (SatName) references Satellite(Name)

);

create table ChannelCountries(

SatName varchar(150) not null,

ChannelName varchar(150) not null,

Frequency varchar(17) not null,

VideoEncoding varchar(17) not null,

Countries varchar(156) not null,

primary key (SatName, ChannelName, Frequency, VideoEncoding, Countries),

foreign key (SatName, ChannelName, Frequency, VideoEncoding) references Channel (SatName, ChannelName, Frequency, VideoEncoding)

);

Create table ChannelSystems(

SatName varchar(150) not null,

ChannelName varchar(150) not null,

Frequency varchar(17) not null,

VideoEncoding varchar(17) not null,

Systems varchar(200) not null,

Primary key (SatName, ChannelName, Frequency, VideoEncoding, Systems),

foreign key (SatName, ChannelName, Frequency, VideoEncoding) references Channel (SatName, ChannelName, Frequency, VideoEncoding)

);

create table ChannelLanguages(

SatName varchar(150) not null,

ChannelName varchar(150) not null,

Frequency varchar(17) not null,

VideoEncoding varchar(17) not null,

Languages varchar(17) not null,

Primary key (SatName, ChannelName, Frequency, VideoEncoding, Languages),

foreign key (SatName, ChannelName, Frequency, VideoEncoding) references Channel (SatName, ChannelName, Frequency, VideoEncoding)

);

create table ChannelEncryptions(

SatName varchar(150) not null,

ChannelName varchar(150) not null,

Frequency varchar(17) not null,

VideoEncoding varchar(17) not null,

Encryptions varchar(150) not null,

Primary key (SatName, ChannelName, Frequency, VideoEncoding, Encryptions),

foreign key (SatName, ChannelName, Frequency, VideoEncoding) references Channel (SatName, ChannelName, Frequency, VideoEncoding)

);

create table Network(

NetName varchar(150) not null,

SatName varchar(150) not null,

Frequency varchar(17) not null,

Website varchar (2500) not null,

Beam varchar(150) null,

SR varchar(17) null,

FEC varchar(17) null,

EIRP varchar(150) null,

primary key (NetName, SatName, Frequency),

foreign key (SatName) references Satellite(Name)

);

create table NetworkCountries(

NetName varchar(150) not null,

SatName varchar(150) not null,

Frequency varchar(17) not null,

Countries varchar(156) not null,

primary key (NetName, SatName, Frequency, Countries),

foreign key (NetName, SatName, Frequency) references Network(NetName, SatName, Frequency)

);

create table NetworkSystems(

NetName varchar(150) not null,

SatName varchar(150) not null,

Frequency varchar(17) not null,

Systems varchar(200) not null,

primary key (NetName, SatName, Frequency, Systems),

foreign key (NetName, SatName, Frequency) references Network(NetName, Satname, Frequency)

);

Create table NetworkedChannels(

NetName varchar(150) not null,

SatName varchar(150) not null,

Frequency varchar(17) not null,

ChannelVideoEncoding varvhar(17) not null,

NetworkedChannels varchar(150) not null,

Primary key(NetName, SatName, Frequency, ChannelVideoEncoding, NetworkedChannels),

Foreign key (NetName) references Network(NetName),

Foreign key(SatName, NetworkedChannels, Frequency, ChannelVideoEncoding) references Channel(SatName, ChannelName, Frequency, VideoEncoding)

);

create table User(

Email varchar(320) not null primary key,

Pass varchar(120) not null,

UserName varchar(30) not null,

Gender char(1) not null,

Birthdate date not null,

country varchar(150) not null,

Region varchar(150) not null

);

create table Favorite(

UserEmail varchar(320) not null,

SatName varchar(150) not null,

ChannelName varchar(150) not null,

Frequency varchar(17) not null,

VideoEncoding varchar(17) not null,

primary key (UserEmail, SatName, ChannelName , Frequency, VideoEncoding),

foreign key (UserEmail) references User(Email),

foreign key (SatName, ChannelName, Frequency, VideoEncoding) references Channel (SatName, ChannelName, Frequency, VideoEncoding)

);