SQL:

create database TV\_BroadCasting\_Satellites

encryption = 'Y';

create table Satellite(

Name varchar(50) not null primary key,

Launch\_Date date not null, (remove)

Launch\_Rocket varchar(50) not null, (remove)

Launch\_Site varchar(50) not null, (remove)

PositionDegree float not null,

PositionDirection char(1) not null

Region varchar(50) not null (Add this)

);

create table SatelliteRegion(

SatName varchar(50) not null,

Region varchar(50) not null,

primary key (SatName, Region),

foreign key (SatName) references Satellite(Name)

); (Remove)

create table Channel(

Name varchar(50) not null primary key,

Website varchar(2048) not null (remove)

);

create table ChannelRelatedChannels(

ChannelName varchar(50) not null,

RelatedChannels varchar(50) not null,

Primary key (ChannelName, RelatedChannels),

foreign key (ChannelName) references Channel(Name)

);

create table ChannelCountries(

ChannelName varchar(50) not null,

Countries varchar(56) not null,

primary key (ChannelName, Countries),

foreign key (ChannelName) references Channel(Name)

);

create table SatelliteChannel(

SatName varchar(50) not null,

ChannelName varchar(50) not null,

Frequency varchar(7) not null,

Beam varchar(50) not null,

VideoCompression varchar(15) not null,

VideoEncoding varchar(7) not null,

SR varchar(5),

FEC char(3),

EIRP varchar(10), (change to EIRP instead of ERIP)

Sys varchar(25), (removed)

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

foreign key (SatName) references Satellite(Name),

foreign key (ChannelName) references Channel(Name)

);

Create table SatelliteChannelSystems(

SatName varchar(50) not null,

ChannelName varchar(50) not null,

Frequency varchar(7) not null,

Beam varchar(50) not null,

VideoCompression varchar(15) not null,

VideoEncoding varchar(7) not null,

Systems varchar(20) not null,

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

foreign key (SatName, ChannelName, Frequency, Beam, VideoCompression, VideoEncoding) references SatelliteChannel(SatName, ChannelName, Frequency, Beam, VideoCompression, VideoEncoding)

); (Added)

create table SatelliteChannelLanguages(

SatName varchar(50) not null,

ChannelName varchar(50) not null,

Frequency varchar(7) not null,

Beam varchar(50) not null,

VideoCompression varchar(15) not null,

VideoEncoding varchar(7) not null,

Languages varchar(7) not null,

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

foreign key (SatName, ChannelName, Frequency, Beam, VideoCompression, VideoEncoding) references SatelliteChannel(SatName, ChannelName, Frequency, Beam, VideoCompression, VideoEncoding)

);

create table SatelliteChannelEncryption(

SatName varchar(50) not null,

ChannelName varchar(50) not null,

Frequency varchar(7) not null,

Beam varchar(50) not null,

VideoCompression varchar(15) not null,

VideoEncoding varchar(7) not null,

Encryptions char(25) not null,

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

foreign key (SatName, ChannelName, Frequency, Beam, VideoCompression, VideoEncoding) references SatelliteChannel(SatName, ChannelName, Frequency, Beam, VideoCompression, VideoEncoding)

);

create table Network(

Name varchar(50) not null primary key,

Website varchar(2048) not null (remove)

);

create table NetworkCountries(

NetworkName varchar(50) not null,

Countries varchar(56) not null,

primary key (NetworkName, Countries),

foreign key (NetworkName) references Network(Name)

);

create table BelongsTo(

NetworkName varchar(50) not null,

Satellite varchar(7) not null,

NatFreq

ChannelName varchar(50) not null,

primary key (NetworkName, ChannelName),

foreign key (NetworkName) references Network(Name),

foreign key (ChannelName) references Channel(Name)

);

create table Contains(

NetName varchar(50) not null,

SatName varchar(50) not null,

Frequncy varchar(7) not null,

Beam varchar(50) not null,

SR varchar(5),

FEC char(3),

EIRP varchar(10),

primary key (SatName, NetName),

foreign key (SatName) references Satellite(Name),

foreign key (NetName) references Network(Name)

); (Remove)

create table SatelliteNetwork(

NetName varchar(50) not null,

SatName varchar(50) not null,

Frequncy varchar(7) not null,

Beam varchar(50),

SR varchar(5),

FEC char(3),

EIRP varchar(10),

primary key (SatName, NetName, Frequency),

foreign key (SatName) references Satellite (Name),

foreign key (NetName) references Network(Name)

);

create table SatelliteNetworkSystems(

NetName varchar(50) not null,

SatName varchar(50) not null,

Frequncy varchar(7) not null,

Systems varchar(20) not null,

primary key (SatName, ChannelName, Frequency, System),

foreign key (SatName, ChannelName, Frequency) references SatelliteNetwork(SatName, ChannelName, Frequency)

);

create table User(

Email varchar(320) not null primary key,

Password varchar(12) not null, (add)

UserName varchar(30) not null,

Gender char(1) not null,

Birthdate date not null,

Location varchar(50) not null,

Region varchar(50) not null

);

create table Favorite(

UserEmail varchar(320) not null,

ChannelName varchar(50) not null,

primary key (UserEmail, ChannelName),

foreign key (UserEmail) references User(Email),

foreign key (ChannelName) references Channel(Name)

);