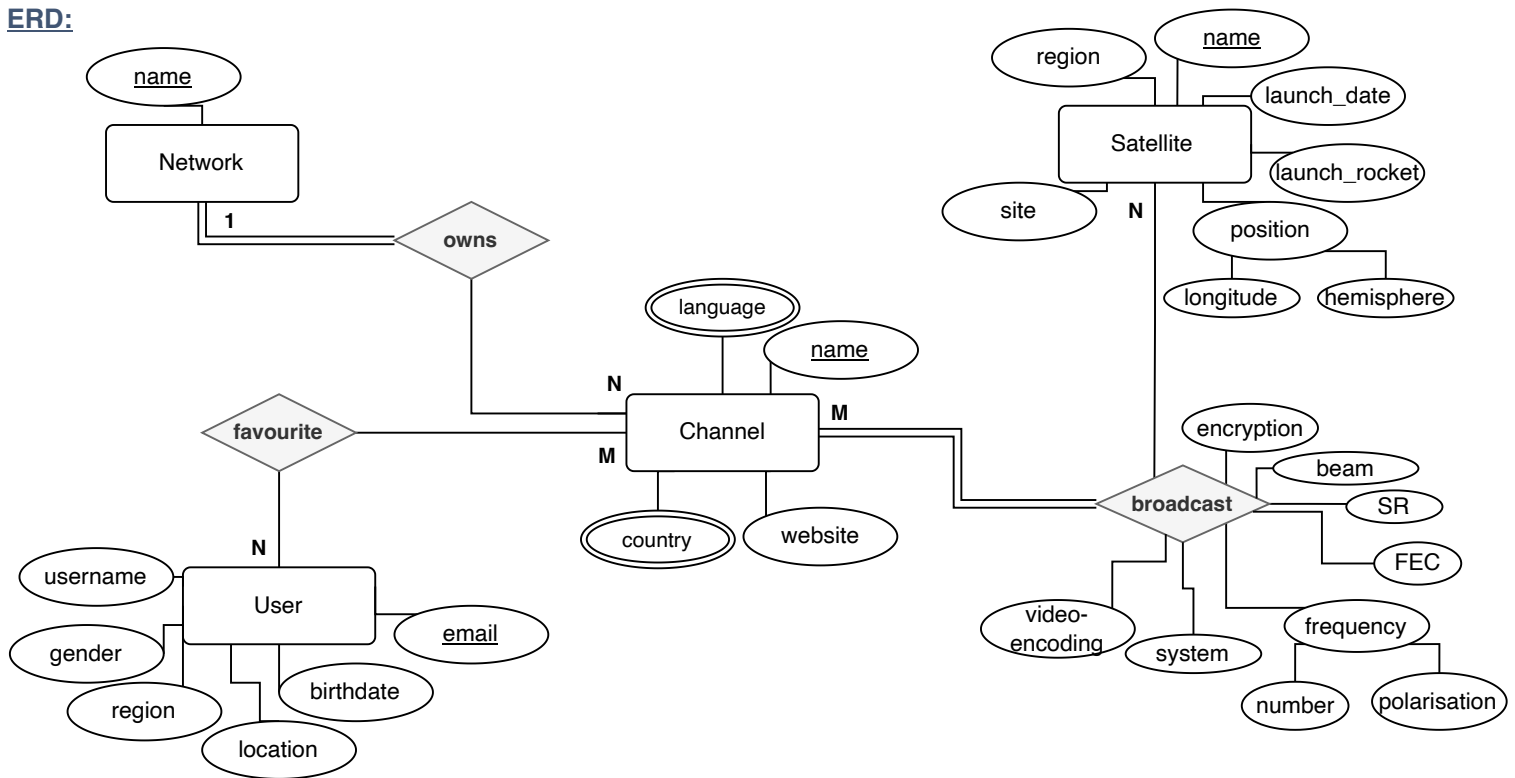


ERD:**Relational Model:**

Satellite (^{PK}name, launch_date, launch_rocket, longitude_position, hemisphere_position, region, site)

Network (^{PK}name)

Channel (^{PK}name, ^{FK_network}network_name, website)

language (^{PK}channel_name, ^{FK_channel}language)

User (^{PK}email, username, gender, birthdate, region, location)

Country (^{PK}channel_name, ^{FK_channel}country)

hosts (^{PK}sat_name, ^{FK_satellite}network_name, ^{FK_network}network_name)

Favourite (^{PK}user_email, ^{FK_user}channel_name, ^{FK_channel}channel_name)

broadcast (^{FK_satellite}Sat_name, ^{FK_channel}channel_name, beam, freq_num, freq_polaris, SR, FEC, video_encoding, encryption)

- For most cases the network has the same frequency, SR, FEC, etc as the channel; however there are instances where the network is present on a satellite that the channels are not on and it has different values for these attributes.
- A channel can have different frequencies for different satellites, and different system, beam, video encoding, SR, FEC, and encryption for a different satellites, so --> that's why they are attributes of the relationship not the channel entity.
- In some cases a channel can have two countries.
- The network also has a country and a website but it was redundant, made more sense to put in the channel as there are non-network channels.
- The relationship between the satellite and network felt redundant so I did not do it, as we can get this information from the satellite channel relationship, and the channel network relationship.
- There were 2 odd cases in the website, first was that one channel on the a satellite had 2 different frequencies, and the second was a channel on the a satellite had different video encoding, to model these cases I would have made broadcasts into a new entity. (the dr said to not add any more entities than those 4 so I ignored these cases and will assume they are different channels, (as they are on the same satellite but have different values for freq., video, and sometimes encryption).