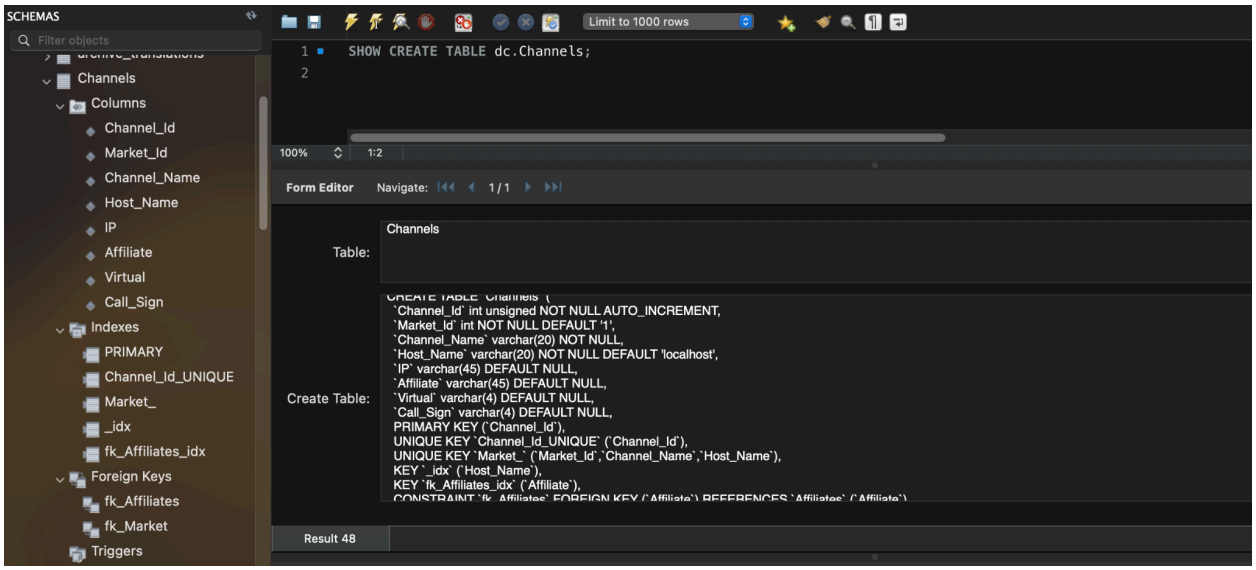
Overview

The **Channels** table stores details about each broadcast channel, including the channel's name, market location, affiliate network, and related technical information like IP address and call sign. It connects to two other tables, **Markets** and **Affiliates**, through foreign keys, which help link each channel to its market and affiliate.



Purpose

The purpose of the **Channels** table is to organize all information related to broadcast channels. Each record represents one channel, showing which market it belongs to, what affiliate it's connected with, and how it's identified in the system.

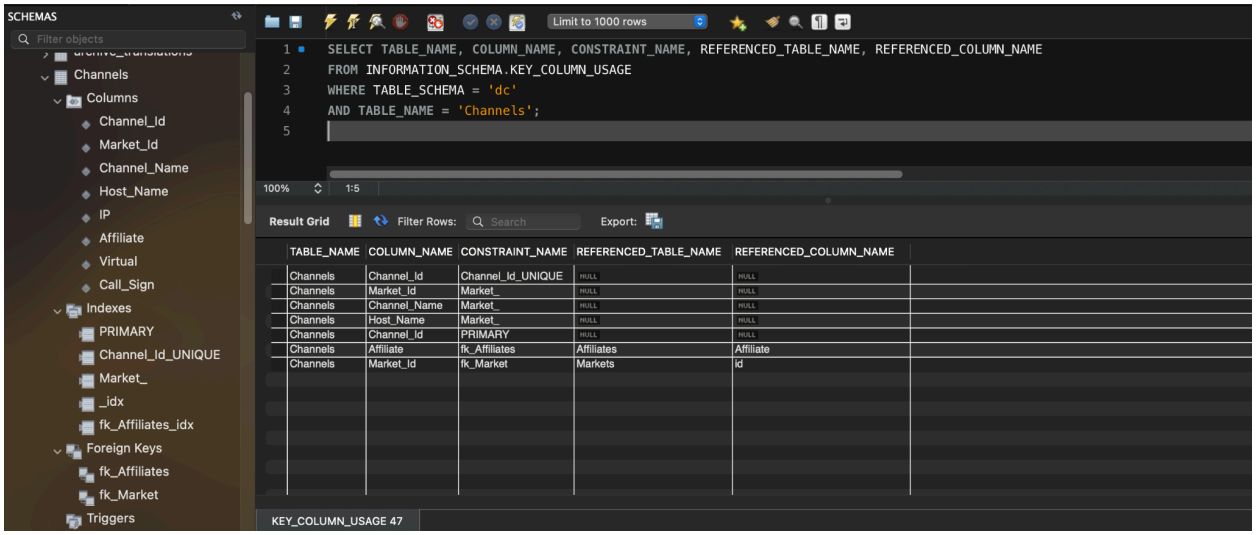
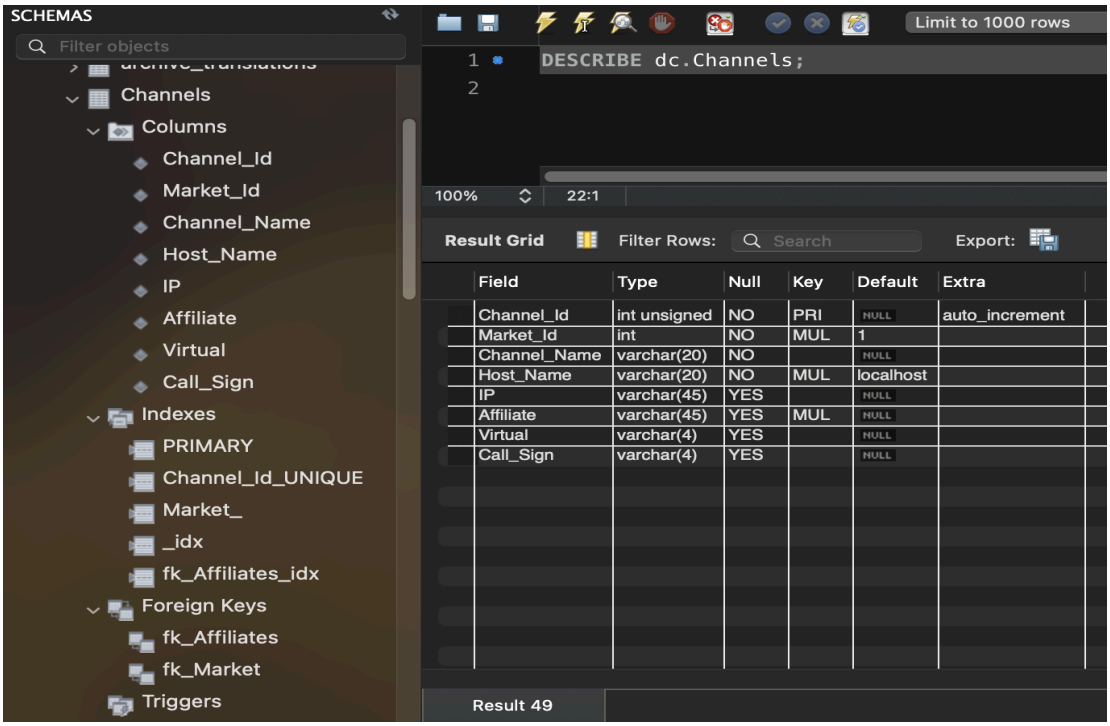


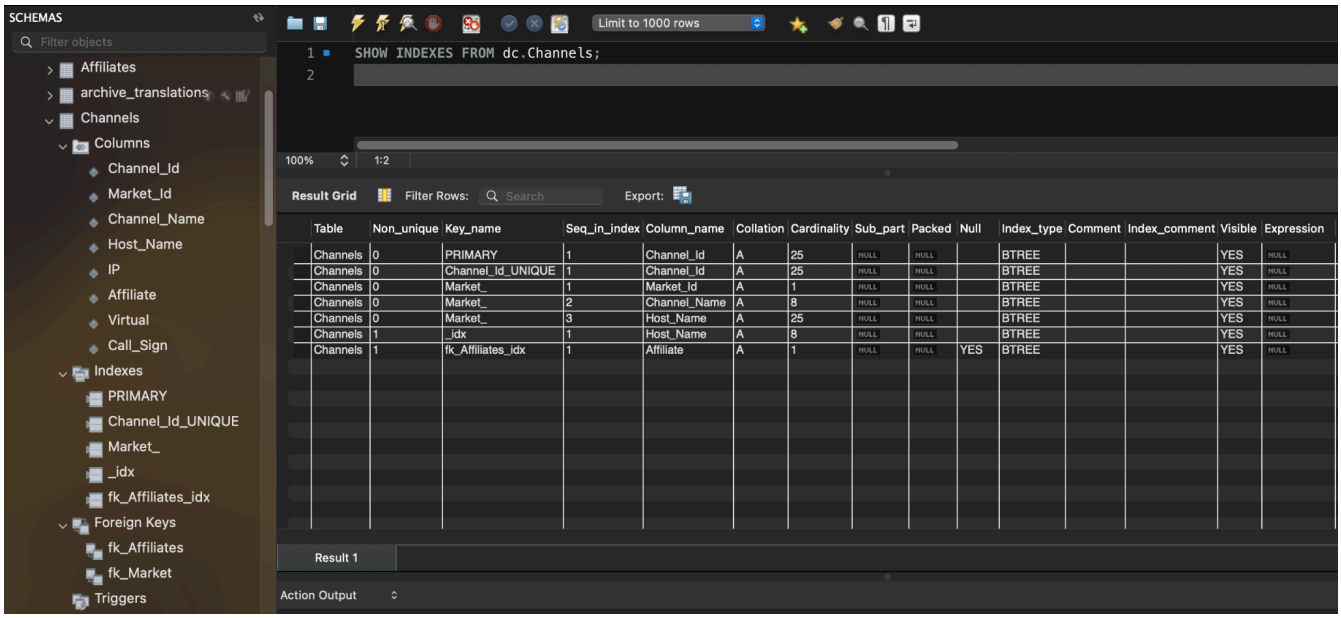
Table Columns

Column Name	Data Type	Description
Channel_Id	INT UNSIGNED AUTO_INCREMENT	The unique ID number for each channel.
Market_Id	INT NOT NULL DEFAULT 1	Links each channel to a record in the **Markets** table.
Channel_Name	VARCHAR(20) NOT NULL	The name of the channel (for example, KDVR or KCEC).
Host_Name	VARCHAR(20) NOT NULL DEFAULT 'localhost'	The network or server name for the channel.
IP	VARCHAR(45)	The IP address linked to the channel.
Affiliate	VARCHAR(45)	Connects the channel to its affiliate network (from the Affiliates table)
Virtual	VARCHAR(45)	The virtual number of the channel
Call_Sign	VARCHAR(45)	The call sign that identifies the station publicly



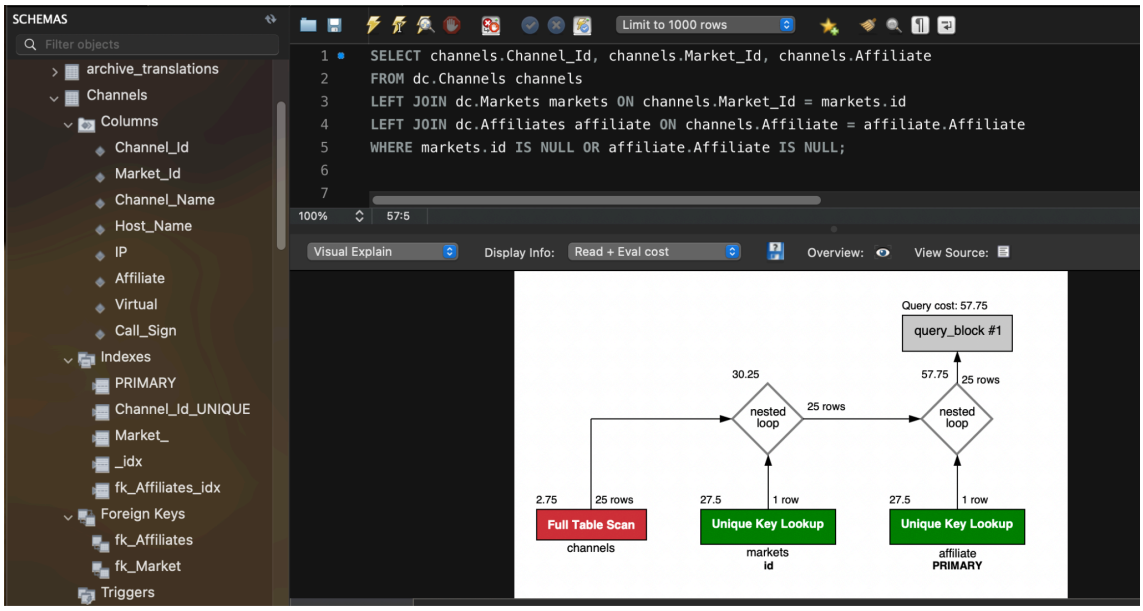
Indexes and Keys

- Primary Key: Channel_Id
- Foreign Keys:
    - fk_Market → linked to Markets(id)
    - fk_Affiliates → likes to Affiliates(Affiliate)
- Other Indexes: Market_, _idx, fk_Afficilates_idx
    - Purpose: Faster Searching

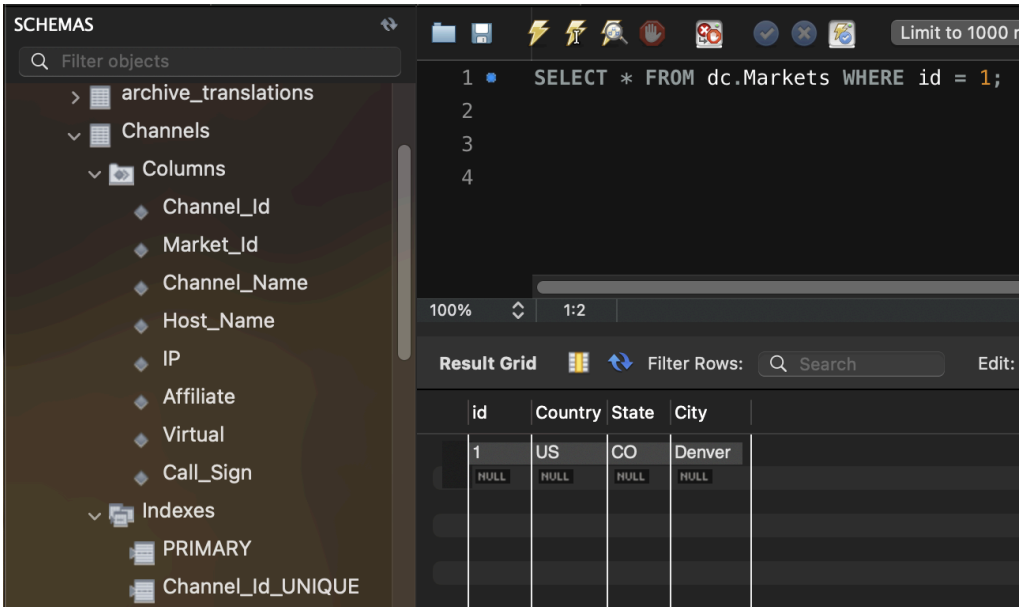


Observations and Issues

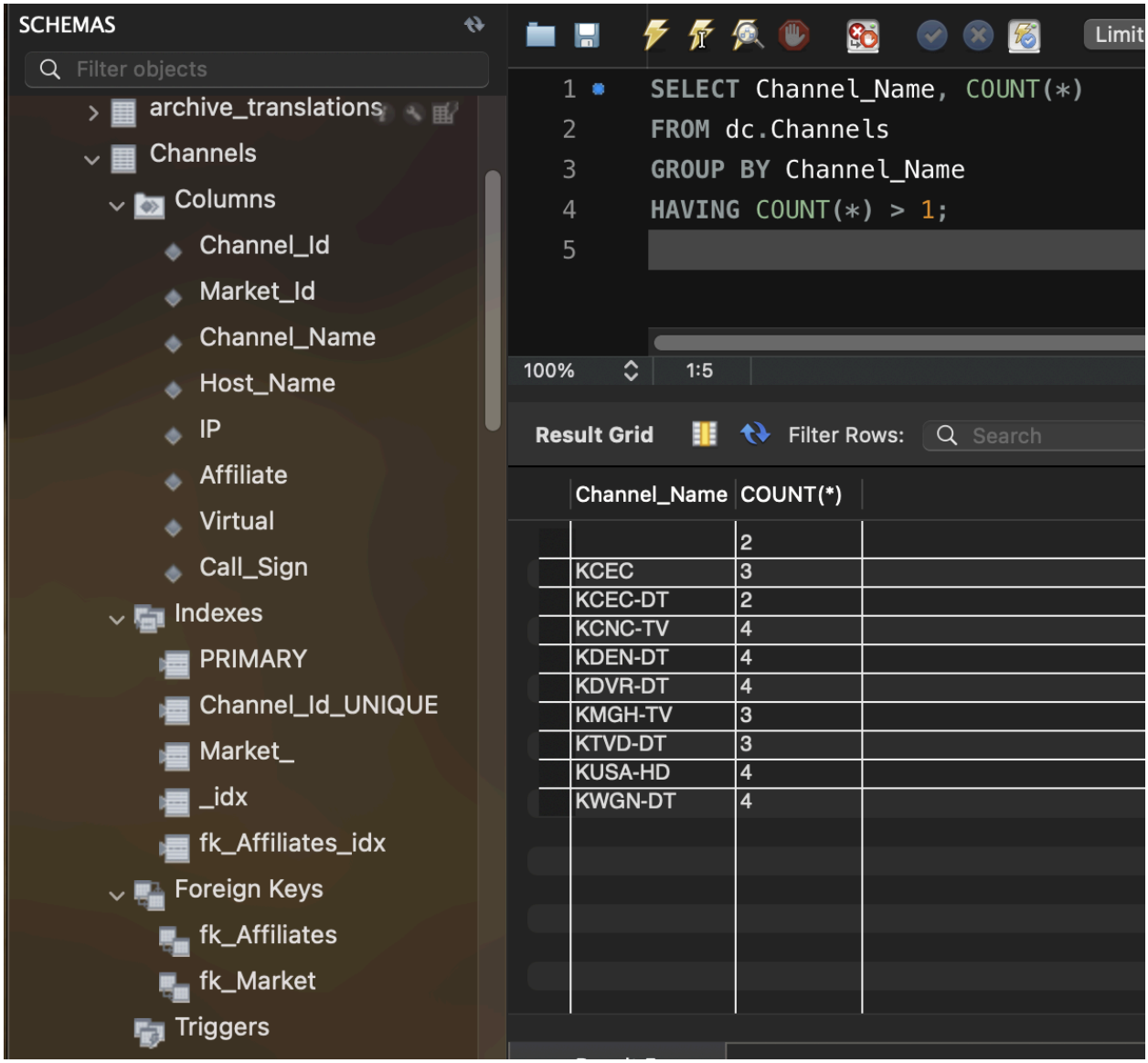
1. **Possible Missing Affiliate Links**: Some channels in dc.Channels have Affiliate names that do not exist in the dc.Affiliates table. These are orphaned records since the link has been broken.



2. **Market Links are Valid**: All Market_Id values in Channels match records in the Markets table.



3. **Duplicate Channel Names**: Some channel names appear more than once. These might represent subchannels or duplicate data.



Recommendations:

1. **Affiliate Fixes**: Check over to determine if there are missing affiliate links. If there are, add missing affiliate names to the dc.Affiliates table so all foreign key links are valid
2. **Check Duplicates**: Review repeated channel names to confirm if they are valid or if they are duplicates that should be removed
3. **Regular Checks**: Run these queries once a month to maintain clean and accurate data,