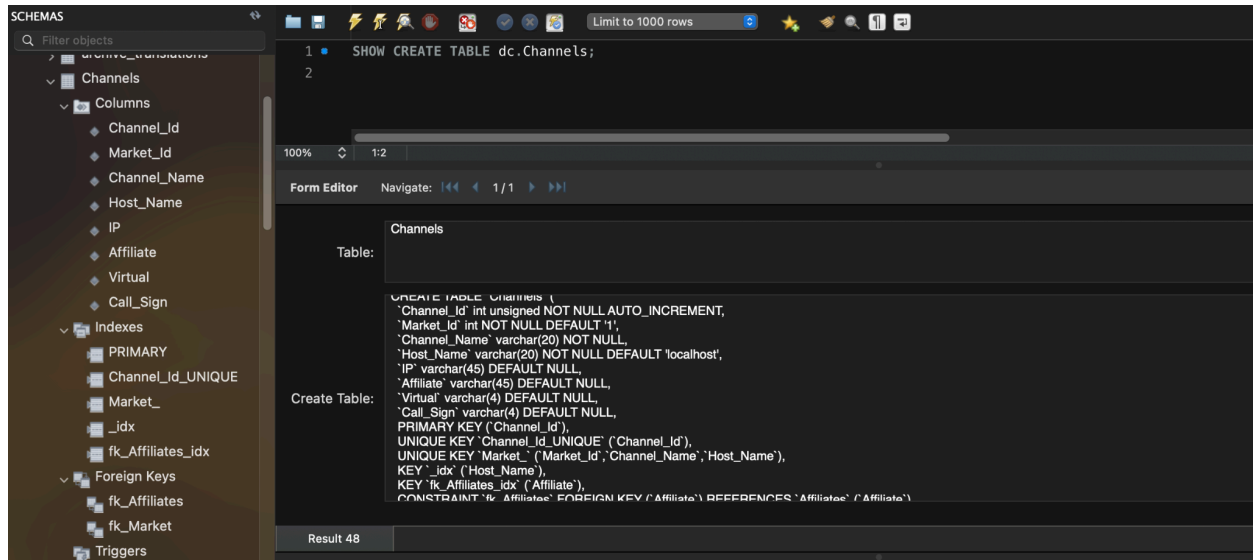


Overview

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.

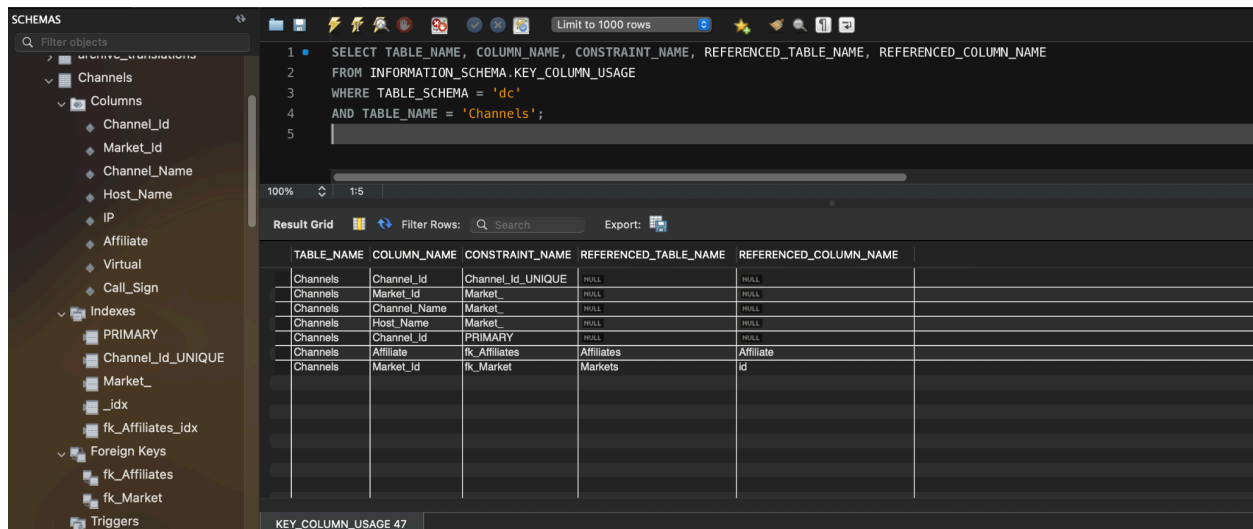


Table Columns

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

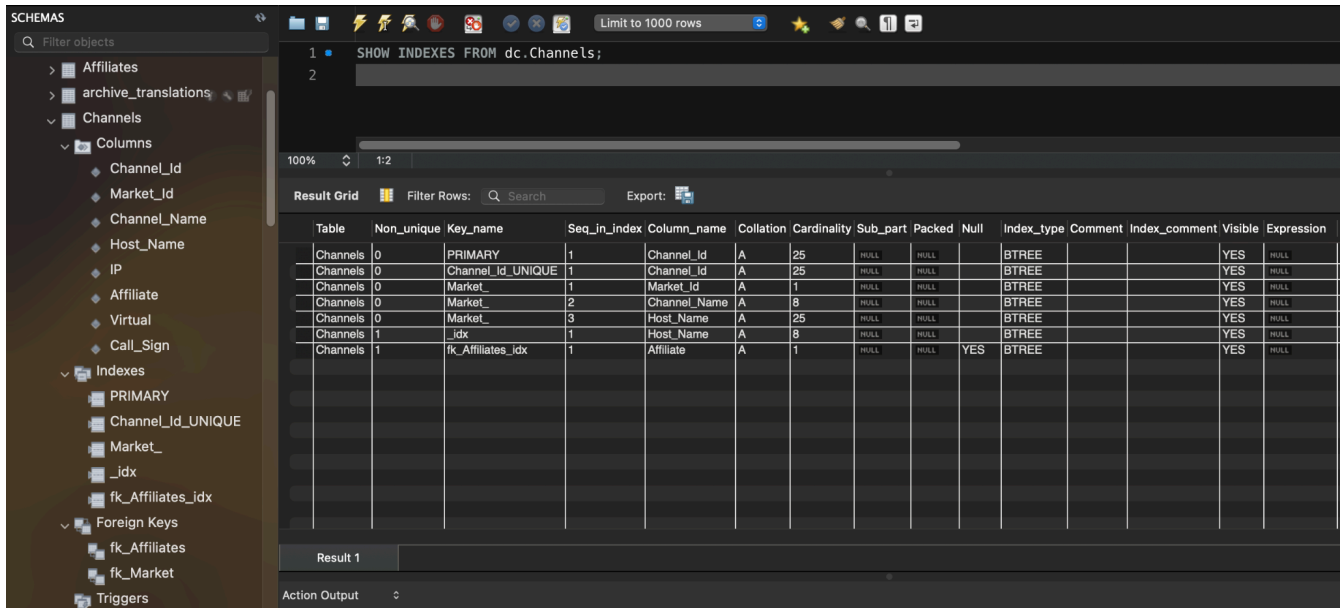
The screenshot displays a database management interface. On the left, the 'SCHEMAS' tree shows the 'Channels' table structure, including columns (Channel_Id, Market_Id, Channel_Name, Host_Name, IP, Affiliate, Virtual, Call_Sign), indexes (PRIMARY, Channel_Id_UNIQUE, Market_Idx, fk_Affiliates_idx), foreign keys (fk_Affiliates, fk_Market), and triggers. The right pane shows the command 'DESCRIBE dc.Channels;' and its result grid.

Field	Type	Null	Key	Default	Extra
Channel_Id	int unsigned	NO	PRI	NONE	auto_increment
Market_Id	int	NO	MUL	1	
Channel_Name	varchar(20)	NO			
Host_Name	varchar(20)	NO	MUL	localhost	
IP	varchar(45)	YES		NONE	
Affiliate	varchar(45)	YES	MUL	NONE	
Virtual	varchar(4)	YES		NONE	
Call_Sign	varchar(4)	YES		NONE	

Result 49

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_Affiliates_idx
 - Purpose: Faster Searching



1 SHOW INDEXES FROM dc.Channels;

2

100% 1:2

Result Grid Filter Rows: Search Export:

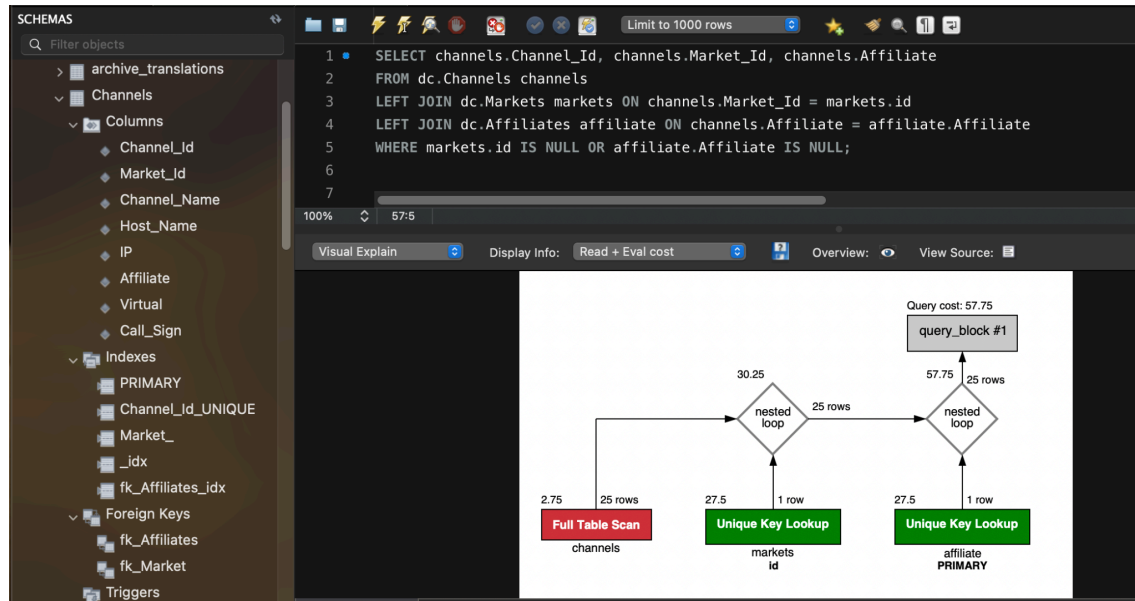
Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment	Index_comment	Visible	Expression
Channels	0	PRIMARY	1	Channel_Id	A	25				BTREE			YES	
Channels	0	Channel_Id_UNIQUE	1	Channel_Id	A	25				BTREE			YES	
Channels	0	Market_	1	Market_Id	A	1				BTREE			YES	
Channels	0	Market_	2	Channel_Name	A	8				BTREE			YES	
Channels	0	Market_	3	Host_Name	A	25				BTREE			YES	
Channels	1	_idx	1	Host_Name	A	8				BTREE			YES	
Channels	1	fk_Affiliates_idx	1	Affiliate	A	1			YES	BTREE			YES	

Result 1

Action Output

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.

The screenshot shows a database query editor with a query and its result grid.

Query:

```
1 SELECT * FROM dc.Markets WHERE id = 1;
2
3
4
```

Result Grid:

id	Country	State	City
1	US	CO	Denver
NULL	NULL	NULL	NULL

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

The screenshot shows a database management interface. On the left, a 'SCHEMAS' panel displays a tree view of the database structure, including 'archive_translations', 'Channels' (with sub-items like 'Columns' and 'Indexes'), and 'Foreign Keys'. The main area displays a SQL query and its results in a 'Result Grid'.

```
1 SELECT Channel_Name, COUNT(*)
2 FROM dc.Channels
3 GROUP BY Channel_Name
4 HAVING COUNT(*) > 1;
5
```

The 'Result Grid' shows the following data:

Channel_Name	COUNT(*)
	2
KCEC	3
KCEC-DT	2
KCNC-TV	4
KDEN-DT	4
KDVR-DT	4
KMGH-TV	3
KTVD-DT	3
KUSA-HD	4
KWGN-DT	4

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,