Proyecto Educativo

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Análisis de Datos – Naruto Shippuden

DATASET

Extracción de datos desde la página para hacer un análisis descriptivo y exploratorio de:
https://www.kaggle.com/code/mariaglezhfhfhhf/naruto-shippuden-dataset

Data set que proporciona la siguiente información, explorando a simple vista con la herramienta de bloc de notas:

```
""Num_episode"",""Title"",""Type"",""Year_launch"",""Rate"",""Votes"",""Saga"",""Airdate"""
"1,1,""Homecoming"",""Mixed Canon/Filler"",""2007"",8.2,728,""s1 Kazekage Rescue"",""2007-02-15"""
"2,2,""The Akatsuki Makes Its Move"",""Mixed Canon/Filler"",""2007"",8,575,""s1 Kazekage Rescue"",""2007-02-15"""
"3,3,""The Results of Training"",""Mixed Canon/Filler"",""2007"",8,508,""s1 Kazekage Rescue"",""2007-02-22"""
"4,4,""The Jinchuriki of the Sand"",""Mixed Canon/Filler"",""2007"",8.2,517,""s1 Kazekage Rescue"",""2007-03-01"""
"5,5,""The Kazekage Stands Tall"",""Mixed Canon/Filler"",""2007"",8.2,486,""s1 Kazekage Rescue"",""2007-03-15"""
"6,6,""Mission Cleared"",""Mixed Canon/Filler"",""2007"",8.2,480,""s1 Kazekage Rescue"",""2007-03-29"""
"7,7,""Run, Kankuro"",""Mixed Canon/Filler"",""2007"",7.8,457,""s1 Kazekage Rescue"",""2007-03-29"""
"8,8,""Team Kakashi, Deployed"",""Mixed Canon/Filler"",""2007"",7.7,437,""s1 Kazekage Rescue"",""2007-04-12"""
"9,9,""The Jinchuriki's Tears"",""Mixed Canon/Filler"",""2007"",7.6,434,""s1 Kazekage Rescue"",""2007-04-12"""
"10,10,""Sealing Jutsu: Nine Phantom Dragons"",""Mixed Canon/Filler"",""2007"",7.5,424,""s1 Kazekage Rescue"",""2007-04-19"""
"11,11,""The Medical Ninja's Student"",""Mixed Canon/Filler"",""2007"",7.7,425,""s1 Kazekage Rescue"",""2007-04-26"""
"12,12,""The Retired Granny's Determination"",""Mixed Canon/Filler"",""2007"",7.9,425,""s1 Kazekage Rescue"",""2007-05-03"""
"13,13,""A Meeting With Destiny"",""Mixed Canon/Filler"",""2007"",8.1,432,""s1 Kazekage Rescue"",""2007-05-10"""
"14,14,""Naruto's Growth"",""Mixed Canon/Filler"",""2007"",8.3,452,""s1 Kazekage Rescue"",""2007-05-17"""
"15,15,""The Secret Weapon is Called....."",""Mixed Canon/Filler"",""2007"",8.4,447,""s1 Kazekage Rescue"",""2007-05-24"""
"16,16,""The Secret of Jinchuriki"",""Mixed Canon/Filler"",""2007"",7.6,403,""s1 Kazekage Rescue"",""2007-05-31"""
"17,17,""The Death of Gaara!"",""Mixed Canon/Filler"",""2007"",7.8,405,""s1 Kazekage Rescue"",""2007-06-07"""
"18,18,""Charge Tactic! Button Hook Entry!!"",""Mixed Canon/Filler"",""2007"",7.7,407,""s1 Kazekage Rescue"",""2007-06-21"""
"19,19,""Traps Activate! Team Guy's Enemies"",""Mixed Canon/Filler"",""2007"",7.8,399,""s1 Kazekage Rescue"",""2007-07-05"""
"20,20,""Hiruko vs. Two Kunoichi!"",""Manga Canon"",""2007"",8.1,427,""s1 Kazekage Rescue"",""2007-07-19"""
"21,21,""Sasori's Real Face"",""Manga Canon"",""2007"",8.1,421,""s1 Kazekage Rescue"",""2007-07-26"""
"22,22,""Chiyo's Secret Skills"",""Manga Canon"",""2007"",7.9,413,""s1 Kazekage Rescue"",""2007-08-02"""
"23,23,""Father and Mother"",""Manga Canon"",""2007"",7.9,410,""s1 Kazekage Rescue"",""2007-08-02"""
"24,24,""The Third Kazekage"",""Mixed Canon/Filler"",""2007"",8.1,418,""s1 Kazekage Rescue"",""2007-08-09"""
"25,25,""Three Minutes Between Life and Death"",""Mixed Canon/Filler"",""2007"",7.9,414,""s1 Kazekage Rescue"",""2007-08-16"""
"26,26,""Puppet Fight: 10 vs. 100!"",""Manga Canon"",""2007"",8.4,656,""s1 Kazekage Rescue"",""2007-08-23"""
"27,27,""Impossible Dream"",""Manga Canon"",""2007"",8.5,474,""s1 Kazekage Rescue"",""2007-08-30"""
"28,28,""Beasts! Alive Again!"",""Filler"",""2007"",7.1,367,""s1 Kazekage Rescue"",""2007-09-13"""
"29,29,""Kakashi Enlightened!"",""Manga Canon"",""2007"",8.1,402,""s1 Kazekage Rescue"",""2007-09-27"""
"30,30,""Aesthetics of an Instant"",""Manga Canon"",""2007"",8.4,439,""s1 Kazekage Rescue"",""2007-09-27"""
"31,31,""The Legacy!"",""Manga Canon"",""2007"",8.5,675,""s1 Kazekage Rescue"",""2007-10-18"""
"32,32,""Return of the Kazekage"",""Manga Canon"",""2007"",7.9,405,""s1 Kazekage Rescue"",""2007-10-25"""
"33,33,""The New Target"",""Manga Canon"",""2007"",7.7,374,""s2 Long-Awaited Reunion"",""2007-11-08"""
"34,34,""Formation! New Team Kakashi!"",""Manga Canon"",""2007"",7.2,362,""s2 Long-Awaited Reunion"",""2007-11-15"""
"35,35,""An Unnecessary Addition"",""Manga Canon"",""2007"",7.3,364,""s2 Long-Awaited Reunion"",""2007-11-22"""
"36,36,""The Fake Smile"",""Manga Canon"",""2007"",7.2,362,""s2 Long-Awaited Reunion"",""2007-11-29"""
```

Línea 1, columna 1 | 100% | Windows (CRLF) | UTF-8

MYSQL

Se procede a crear una tabla en MySQL ya que lo utilizaremos para limpiar la data y realizar transformaciones, ya que si lo cargamos directamente en Power BI ya que se tiene como uno de los objetivos demostrar las ventajas que tiene la herramienta MYSQL. Creamos una base de datos “naruto” para que carguemos allí el dataset. Utilizaremos una tabla la cual llamaremos ‘’ series” con las variables declaradas con el título que notamos en el bloc de notas:

```
CREATE DATABASE naruto;
USE naruto;
CREATE TABLE series(
ID int,
num_ep INT,
title VARCHAR(150),
ttype VARCHAR (100),
years_launch VARCHAR(50),
rating VARCHAR(50),
votes VARCHAR(50),
saga VARCHAR(150),
airdate VARCHAR(150),
years VARCHAR (150),
months VARCHAR (150),
days VARCHAR(100)
);
```

El tipo de variable utilizamos todos en VARCHAR o INT (entero). Luego cargamos los datos, en este paso puede ocurrir algún error de acuerdo alguna medida de seguridad de la versión de MySQL del usuario, por lo que quedará para el lector resolver, la siguiente página puede servir de ayuda, también hay que tener cuidado con usar "/" o "\" o probar con los siguientes scripts.

```
# ante una advertencia de error
SET GLOBAL local_infile = true;
SHOW VARIABLES LIKE "secure_file_priv";
```

	Variable_name	Value
▶	secure_file_priv	C:\ProgramData\MySQL\MySQL Server 8.0\Upl...

```
#CARGA DE DATOS
LOAD DATA LOCAL INFILE 'C:/Program Files/MySQL/MySQL Server 8.0/Uploads/naruto_sh.csv'
INTO TABLE series
FIELDS TERMINATED BY ';'
LINES TERMINATED BY '\n'
ignore 1 lines;
```

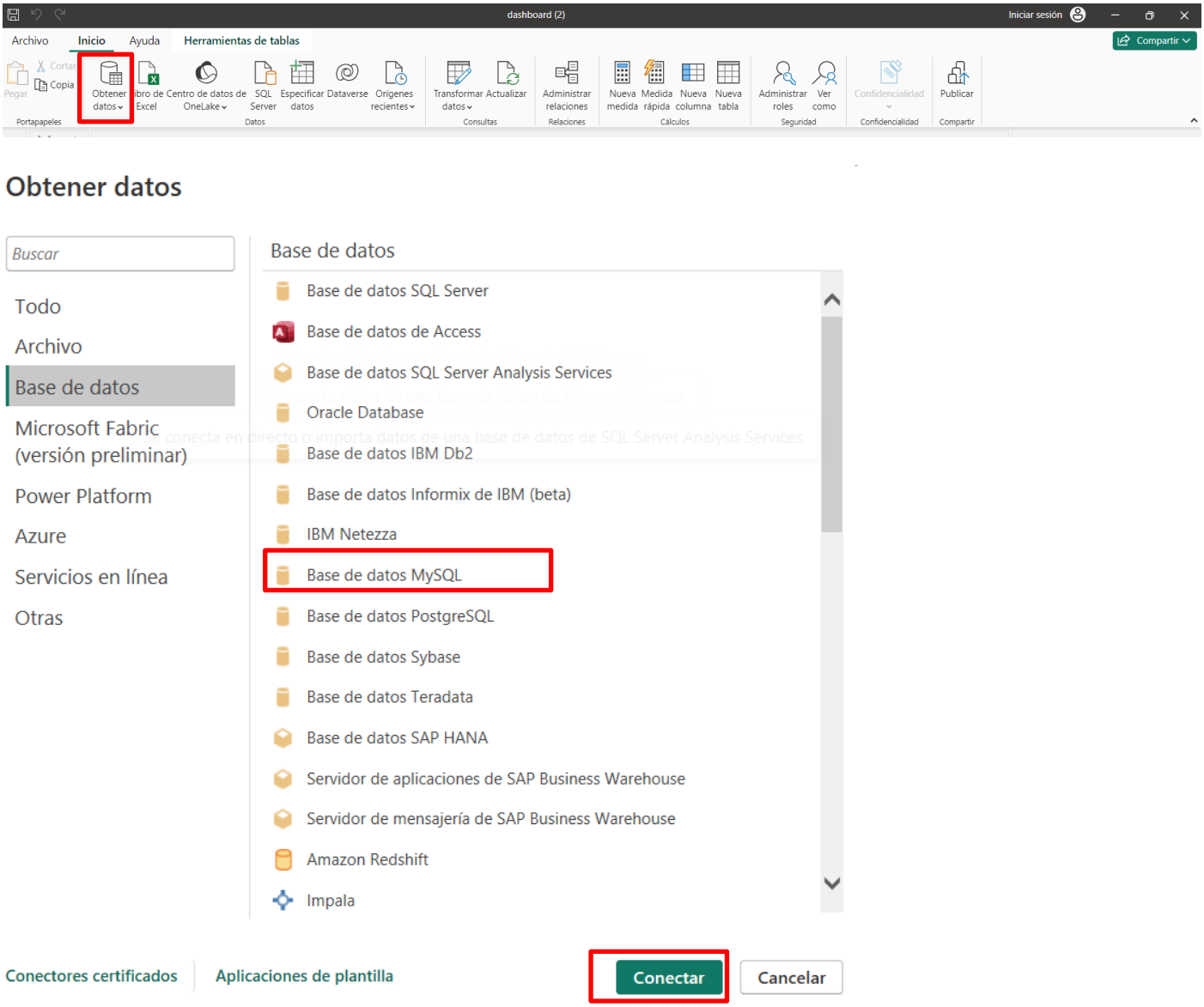
```
# visualizamos la tabla series
SELECT * FROM naruto.series;
SHOW TABLES FROM naruto;
```

```
 # inciamos un contador
 # tabla dimension TYPE
 SET @contador=0;
 CREATE TABLE tab_type as
  select distinct(select @contador:= @contador+1) as id_type,
 ttype as ttypes ,
 AVG(rating) as promedio_rating ,
 count(title) as cantidad_ep
 from series group by ttype;

# tabla dimension YEARS
set @contador=0;
CREATE TABLE tab_years as select distinct(select @contador:= @contador+1) as id_years,
years as yyears,
SUM(votes) as votos_por_año ,
count(title) as num_ep
from series group by years;

# tabla dimension SEASON
create table tab_saga as select distinct(select @contador:= @contador+1) AS id_season,
saga as season ,
AVG(rating) as promedio_rating
from series group by saga ;
```

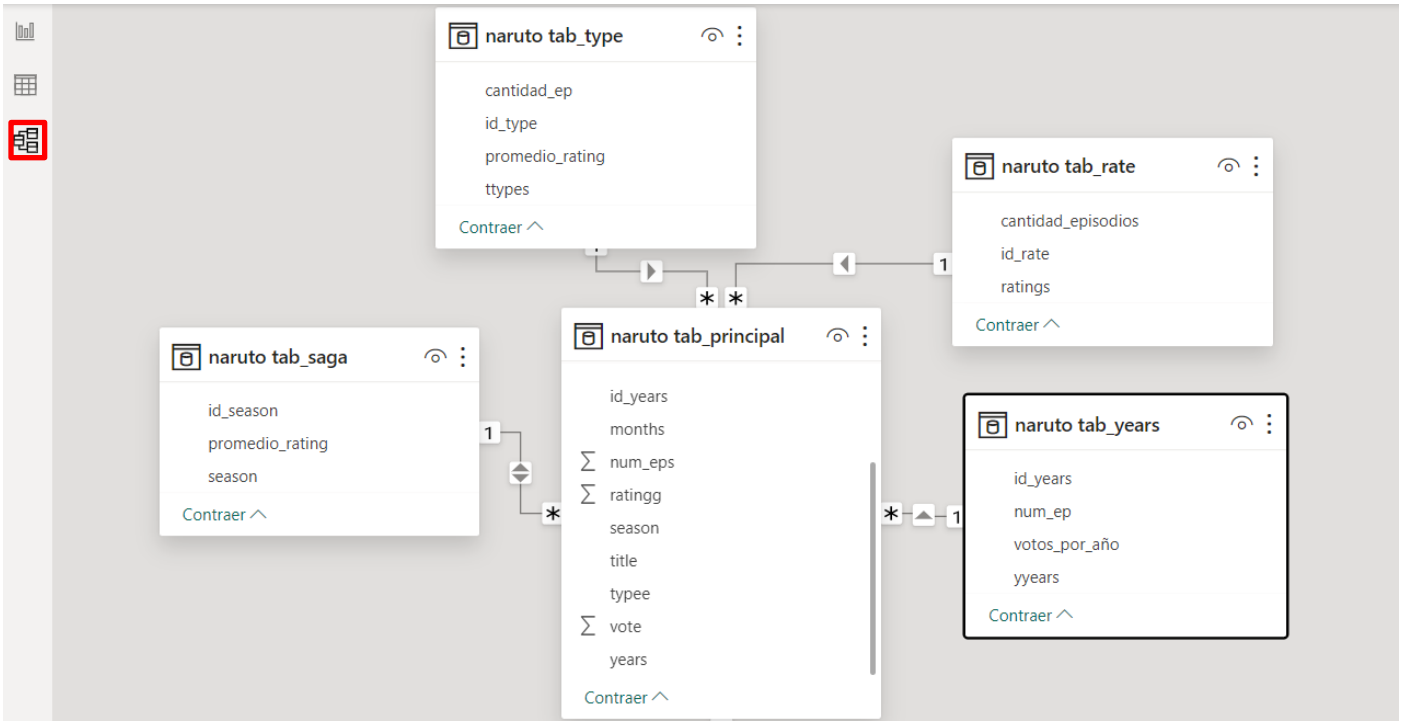
```sql
# tabla dimension RATING
set @contador=0;
CREATE TABLE tab_rate as
select distinct(select @contador:= @contador+1) as id_rate,
rating as ratings ,
count(num_ep) as cantidad_episodios
from series
group by ratings
order by rating desc;

# tabla dimension YEARS
set @contador=0;
CREATE TABLE tab_years as select distinct(select @contador:= @contador+1) as id_years,
years as yyears,
SUM(votes) as votos_por_año ,
count(title) as num_ep
from series group by years;

 #tabla principal (de hechos)
 drop table tab_principal;
 create table tab_principal select A.ID as id_principal ,
 A.num_ep as num_eps,A.title as title,
 A.ttype as typee,
 A.years_launch as years,
 A.rating as ratingg,
 A.votes as vote,
 A.saga as season
 ,A.months as months,
 C.id_rate as id_rate,
 D.id_season as id_season,
 E.id_type as id_type,
 F.id_years as id_years
 from series A
 inner join tab_rate C on(A.rating = C.ratings)
 inner join tab_saga D on(A.saga = D.season)
 inner join tab_type E on (A.ttype = E.ttypes)
 inner join tab_years F on (A.years = F.yyears)
 order by id_principal asc;
```

Power BI

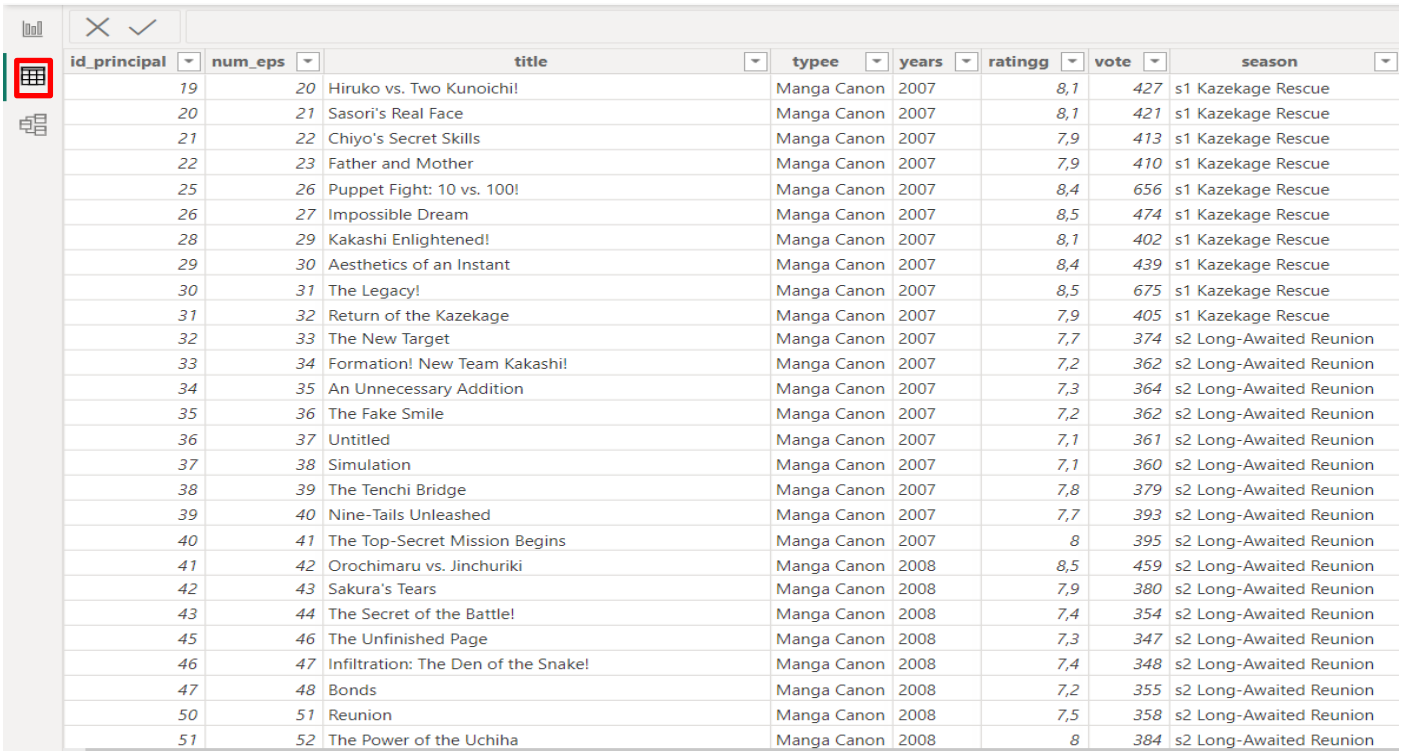
Para hacer la conexión de la base de datos a MYSQL instalamos conectores para que al actualizar los scripts se actualice en Power BI, al ingresar obtener datos y tendremos la siguiente ventana en donde seleccionaremos la opción base de datos de MYSQL:



Luego para visualizar el diagrama de entidad – relación que se cargó correctamente en la opción vista de modelo podremos obtener las relaciones de la siguiente manera:



También podemos ver las tablas cargadas, en la parte de vista de tablas:



id_principal	num_eps	title	typee	years	ratingg	vote	season
19	20	Hiruko vs. Two Kunoichi!	Manga Canon	2007	8,1	427	s1 Kazekage Rescue
20	21	Sasori's Real Face	Manga Canon	2007	8,1	421	s1 Kazekage Rescue
21	22	Chiyo's Secret Skills	Manga Canon	2007	7,9	413	s1 Kazekage Rescue
22	23	Father and Mother	Manga Canon	2007	7,9	410	s1 Kazekage Rescue
25	26	Puppet Fight: 10 vs. 100!	Manga Canon	2007	8,4	656	s1 Kazekage Rescue
26	27	Impossible Dream	Manga Canon	2007	8,5	474	s1 Kazekage Rescue
28	29	Kakashi Enlightened!	Manga Canon	2007	8,1	402	s1 Kazekage Rescue
29	30	Aesthetics of an Instant	Manga Canon	2007	8,4	439	s1 Kazekage Rescue
30	31	The Legacy!	Manga Canon	2007	8,5	675	s1 Kazekage Rescue
31	32	Return of the Kazekage	Manga Canon	2007	7,9	405	s1 Kazekage Rescue
32	33	The New Target	Manga Canon	2007	7,7	374	s2 Long-Awaited Reunion
33	34	Formation! New Team Kakashi!	Manga Canon	2007	7,2	362	s2 Long-Awaited Reunion
34	35	An Unnecessary Addition	Manga Canon	2007	7,3	364	s2 Long-Awaited Reunion
35	36	The Fake Smile	Manga Canon	2007	7,2	362	s2 Long-Awaited Reunion
36	37	Untitled	Manga Canon	2007	7,1	361	s2 Long-Awaited Reunion
37	38	Simulation	Manga Canon	2007	7,1	360	s2 Long-Awaited Reunion
38	39	The Tenchi Bridge	Manga Canon	2007	7,8	379	s2 Long-Awaited Reunion
39	40	Nine-Tails Unleashed	Manga Canon	2007	7,7	393	s2 Long-Awaited Reunion
40	41	The Top-Secret Mission Begins	Manga Canon	2007	8	395	s2 Long-Awaited Reunion
41	42	Orochimaru vs. Jinchuriki	Manga Canon	2008	8,5	459	s2 Long-Awaited Reunion
42	43	Sakura's Tears	Manga Canon	2008	7,9	380	s2 Long-Awaited Reunion
43	44	The Secret of the Battle!	Manga Canon	2008	7,4	354	s2 Long-Awaited Reunion
45	46	The Unfinished Page	Manga Canon	2008	7,3	347	s2 Long-Awaited Reunion
46	47	Infiltration: The Den of the Snake!	Manga Canon	2008	7,4	348	s2 Long-Awaited Reunion
47	48	Bonds	Manga Canon	2008	7,2	355	s2 Long-Awaited Reunion
50	51	Reunion	Manga Canon	2008	7,5	358	s2 Long-Awaited Reunion
51	52	The Power of the Uchiha	Manga Canon	2008	8	384	s2 Long-Awaited Reunion

Luego se puede visualizar gráficos e imágenes en la parte de vista de informes:


SHUT UP... STUPID.
SEASON
RATING
AUDIENCE
DASHBOARD
NARUTO
ATHIAS
SHIPPUDEN