

DATA ANALYSIS
SAKILA DATABASE SAMPLE

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HOME ASSIGNMENT – 9

INTRODUCTION:

We have used SAKILA sample Database (Version – 5.7.25) in this assignment as our dataset. The Sakila sample database was developed by MySQLAB documentation team with an intent to provide a schema that can be used for examples in books, tutorials etc. Sakila database consists of the features of MySQL such as Views, Stored Procedures, and Functions. The Sakila sample database is the result of support and feedback from the MySQL user community.

DATABASE TABLES LIST :

1	Tables_in_sakila
2	actor
3	actor_info
4	address
5	category
6	city
7	country
8	customer
9	customer_list
10	film
11	film_actor
12	film_category
13	film_list
14	film_text
15	inventory
16	language
17	nicer_but_slower_film_list
18	payment
19	rental
20	sales_by_film_category
21	sales_by_store
22	staff
23	staff_list
24	store

CONTENTS:

❖ Github/iPython Notebook file link

➤ <https://github.com/skavya90/MYSQL.git>

❖ Requirements

❖ Observations/Conclusions

❖ Limitations

REQUIREMENTS:

- DML:
 - SELECT, INSERT, UPDATE, DELETE
- DDL:
 - CREATE, ALTER, DROP
- CLAUSES:
 - WHERE, LIKE, GROUP BY, ORDER BY, HAVING, IN, BETWEEN, AND/OR
- FLOW CONTROL STATEMENTS:
 - CASE
- FUNCTIONS:
 - COUNT(), CONCAT(), SUM(), UPPER()
- OTHER METHODS:
 - INNER JOIN, SUBQUERIES

❖ Observations from output

1. Sports category contributed to highest amount of revenue from sales.

So, maintaining more copies of sports category in stock could land stores in profits.

	category	total_sales
+	Sports	5314.21
	Sci-Fi	4756.98
	Animation	4656.30
	Drama	4587.39
	Comedy	4383.58

2. Customer named Karl Seal made purchases of highest amount.

3. Jon Stephens from store 2 made highest amount from sales in Aug 2005.

4. Though, Film Lambs Cincinnati has highest number of actors, it was rented only a 10 number of times.

title	actor_cnt
LAMBS CINCINATTI	15
CHITTY LOCK	13

title	Rent_Freq
LAMBS CINCINATTI	10

5. Every item was rented atleast 4 times and “Bucket Brotherhood” has been rented highest number of times.

title	Rent_Freq
BUCKET BROTHERHOOD	34
ROCKETEER MOTHER	33
JUGGLER HARDLY	32
RIDGEMONT SUBMARINE	32
FORWARD TEMPLE	32

6. Maximum rental price recorded by both stores was found to be \$4.99.

❖ LIMITATIONS:

- As mentioned in the beginning, our dataset which is a sample has information related to 2 stores, 997 movies and only 196 actors which means our dataset is small to make any specific predictions.
- And, we have in our dataset, 100+ countries and 599 customers which is much less of a sample of customers.
- Also, with ~1000 movies for 100+ countries which means an average of less than 10 movies for a country, which is too small to analyze.