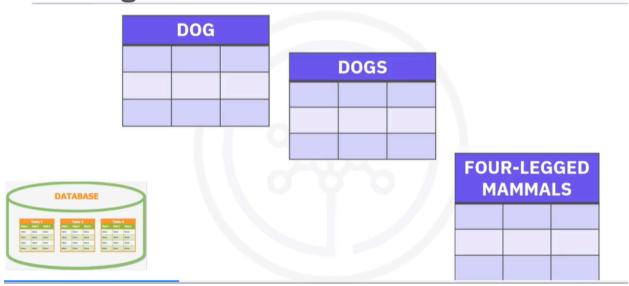
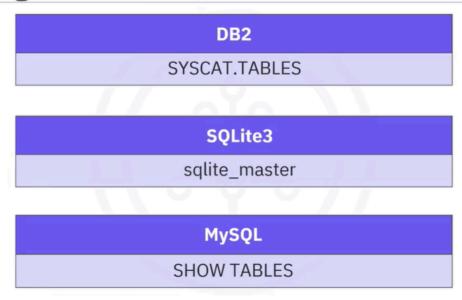
# **Getting Table and Column Details**

#### Getting a list of tables in the database



, how do you get a list of tables in the database? Sometimes your database
may contain several tables and you may not remember the correct name. For
example, you may wonder whether the table is called dog, dogs, or fourlegged mammals.

#### Getting a list of tables in the database



For example, you may wonder whether the table is called dog, dogs, or four-legged mammals. Database systems typically contain system or catalog tables from where you can query the list of tables and get their properties. In DB2, this catalog is called SYSCAT.TABLES, in SQL Server, it's information\_Schema.tables, in SQLite3, it is sqlite\_master, and in MySQL, it is SHOW TABLES.

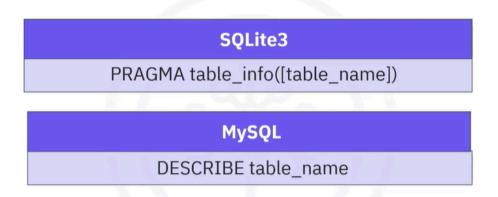
### Getting a list of tables in the database

Query system catalog to get a list of tables & their properties:



To get a list of tables in an SQLite3 database, you can run the following query.
 SELECT name FROM sqlite\_master WHERE type='table'. The same can be done in a MySQL interface using the statement, SHOW TABLES.

## Getting table attributes



To extract the attributes or column headers of the dataset tables you can
make use of specific commands in each type of servers. For instance, in
SQLite3 you can use the command PRAGMA table\_info. In MySQL, the
command can be used for this is, DESCRIBE table\_name.

#### Summary

Now you know that:

- Database systems typically contain system or catalog tables from where you can query the list of tables and get their properties.
- To get a list of tables in SQLite3 database, use SELECT name
   FROM sqlite\_master WHERE type="table"
- To extract the attributes in SQLite3, use PRAGMA table\_info([table\_name])

#### **Explanation:**

Understanding how to get a list of tables in a database is an essential skill when working with databases. Think of a database as a large library, where each table is like a different book. Sometimes, you might forget the title of a book (or table) you want to read, and that's where knowing how to find the list of books (tables) comes in handy.

In different database systems, there are specific ways to look up these tables. For example, in SQLite3, you can use the command:

SELECT name FROM sqlite\_master WHERE type='table';

This command is like asking the librarian, "Can you show me all the books in the library?" It retrieves the names of all the tables in your SQLite3 database. Similarly, in MySQL, you can simply use the command <a href="SHOW TABLES">SHOW TABLES</a>; to get the same information.

If you need to know more about the columns or attributes of a specific table, you can use commands like PRAGMA table\_info(table\_name); in SQLite3. This is like asking the librarian for a summary of a specific book's chapters.