



**Kampus
Merdeka**
INDONESIA JAYA



SQL STATEMENT: **DROP**

Bachelor of Information Systems

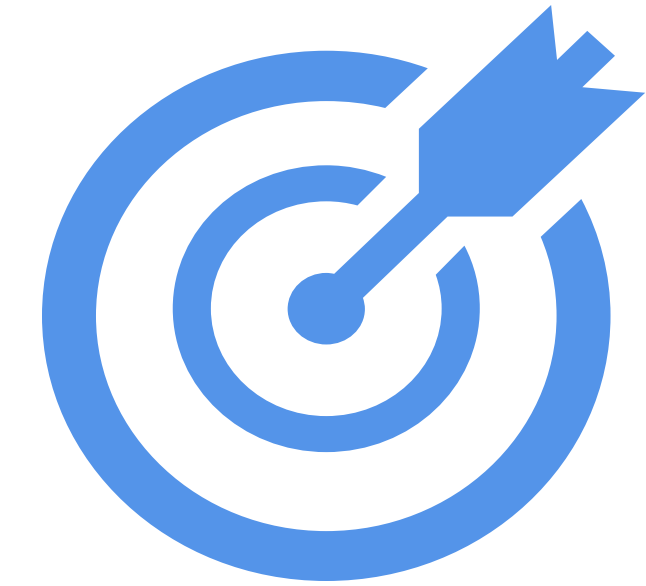


INTRODUCTION TO
DATABASE AND INFORMATION SYSTEM



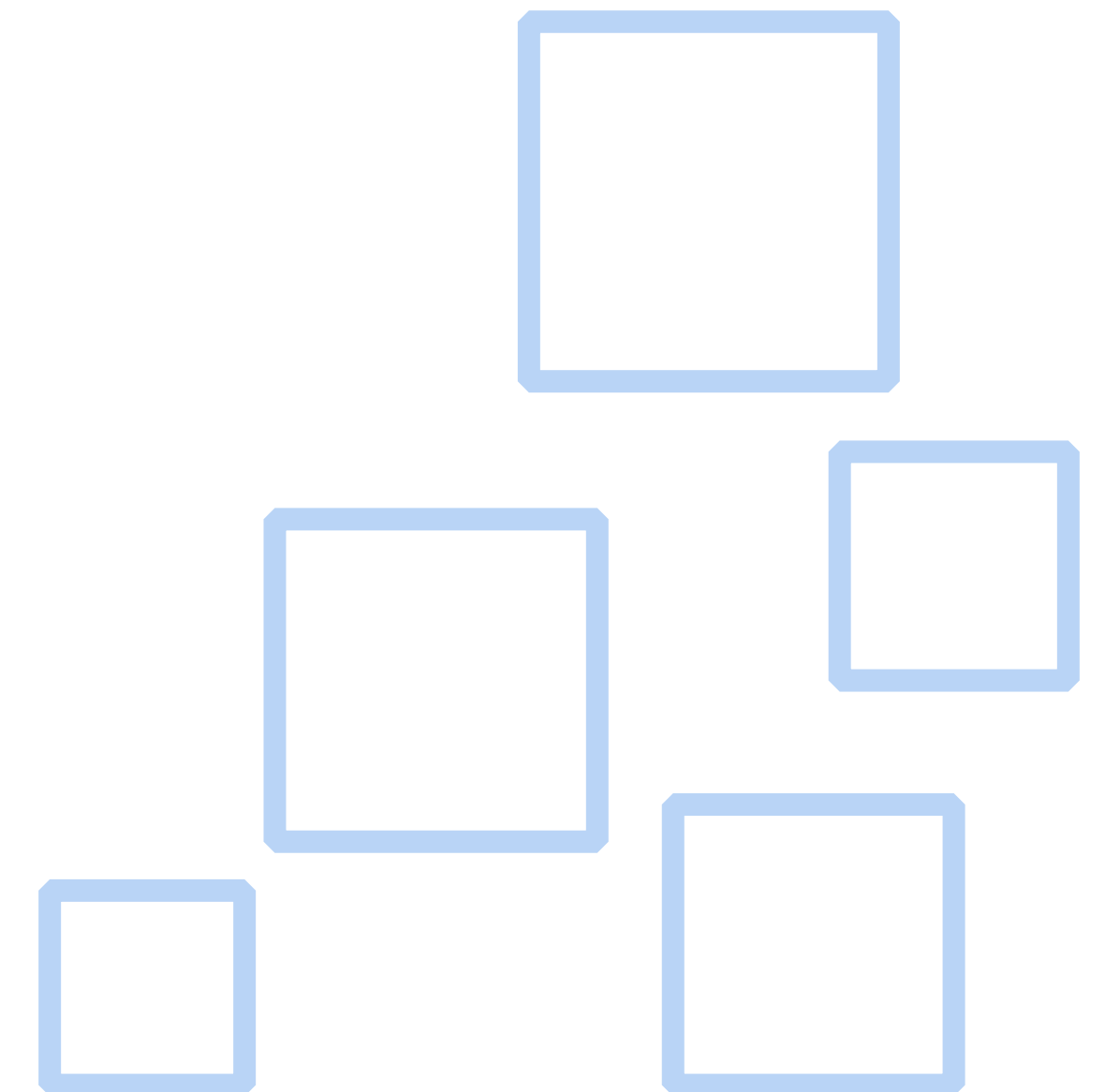
Learning Objective(s)

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This material should address the following question(s).

- ? How do we delete an existing database in SQL?
- ? How do we delete an existing table in SQL?



Question



How do we **delete** an existing **database** in SQL?

DROP DATABASE

- **DROP DATABASE** is used to delete an existing database along with all the data such as tables, views, indexes, stored procedures, and constraints.
- Syntax:
DROP DATABASE DatabaseName;

Example:

Database
master
performance_schema
information_schema
mysql
Library

Delete **Library** database

```
DROP DATABASE Library;
```

```
SHOW DATABASES;
```

Output:

Database
master
performance_schema
information_schema
mysql

DROP DATABASE IF EXISTS

- Instead of always checking if a database exists or not before dropping it.
- Use **IF EXISTS** clause to check whether the database exists before trying to delete it.
- Syntax:
**DROP DATABASE IF EXISTS
DatabaseName;**

Example:

Database
master
performance_schema
information_schema
mysql

Delete **Library** database if it exists

```
DROP DATABASE IF EXISTS Library;
```

Output:

The query will be ignored with the following output displayed:

```
Query OK, 0 rows affected, 1 warning (0.000 sec)
```

DELETING MULTIPLE DATABASE

- **DROP DATABASE** is used to delete an existing database along with all the data such as tables, views, indexes, stored procedures, and constraints.
- Syntax:
DROP DATABASE DatabaseName1, DatabaseName2, DatabaseNameN;

Example:

Database
master
performance_schema
information_schema
mysql
Library1
Library2

Delete **Library1** and **Library2** databases

```
DROP DATABASE Library1, Library2;
```

```
SHOW DATABASES;
```

Output:

Database
master
performance_schema
information_schema
mysql

Question



How do we **delete** an existing **table** in SQL?

DROP TABLE

- Use **DROP TABLE** to remove a table's definition, and its data, indexes, triggers, constraints and permission specifications (if any).
- Syntax:
DROP TABLE TableName;

Example:

Tables_in_Library
Assignments
Books
Members
Roles

Delete **Roles** table

```
DROP TABLE Roles;
```

List all tables in current database

```
SHOW TABLES;
```

Output:

Tables_in_Library
Assignments
Books
Members

DROP TABLE IF EXISTS

- Instead of always checking if the table exists or not in a database before dropping it.
- Use **IF EXISTS** clause to check whether the table exists in the current database and then drops it, if yes, else it will be ignored.
- Syntax:
DROP TABLE IF EXISTS TableName;

Example:

Tables_in_Library
Assignments
Books
Members
Roles

Delete **Authors** table if it exists

```
DROP TABLE IF EXISTS Authors;
```

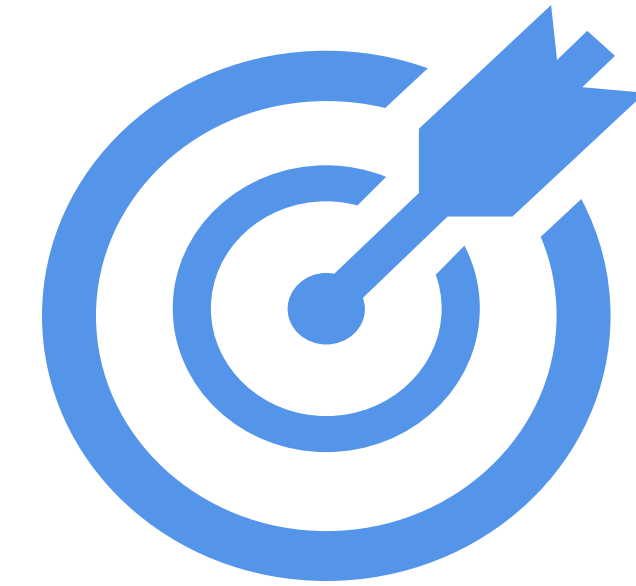
Output:

The query will be ignored with the following output displayed:

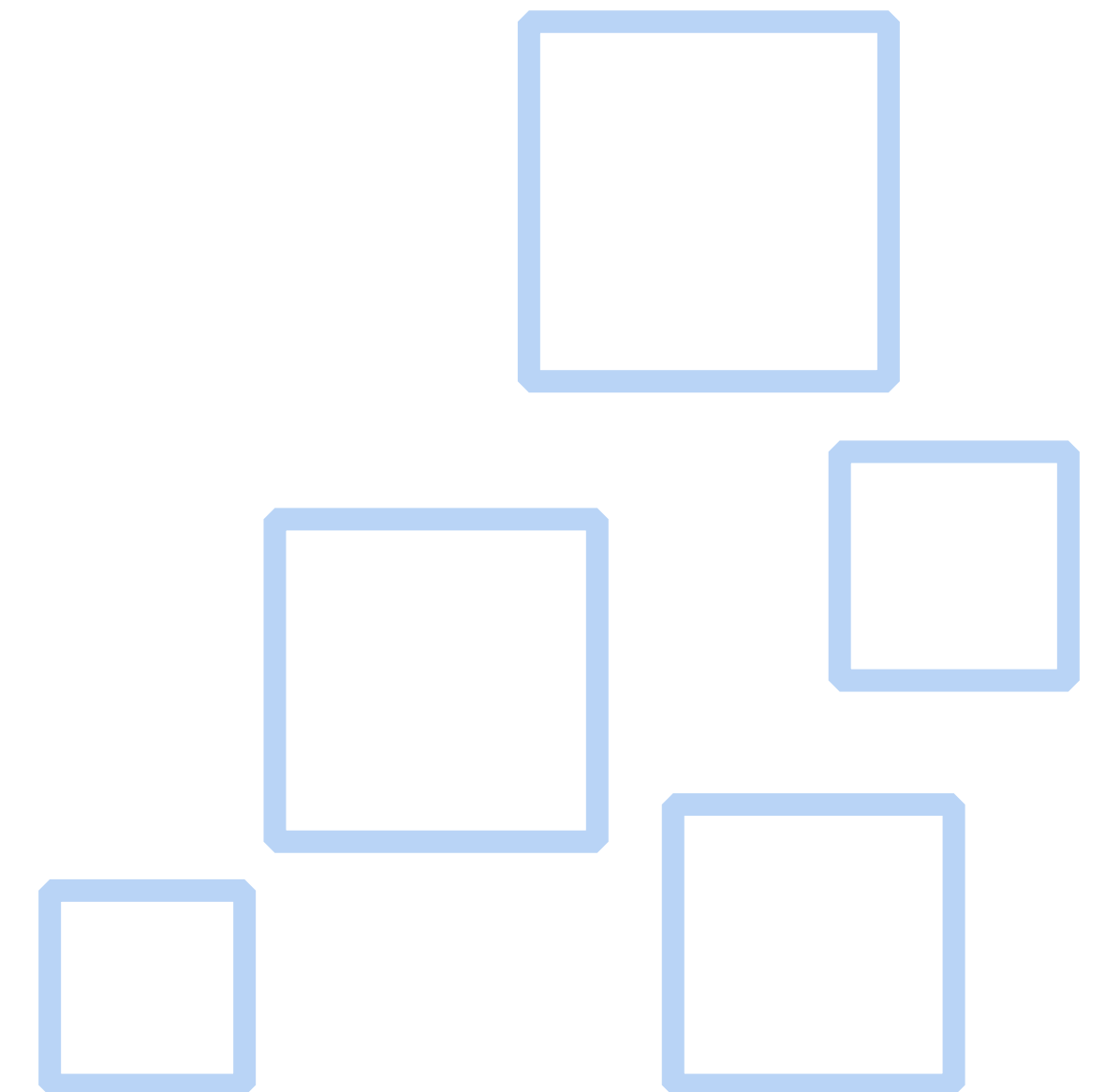
```
Query OK, 0 rows affected, 1 warning (0.001 sec)
```

Conclusion

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- ✓ Use **DROP DATABASE** or **DROP DATABASE IF EXISTS** to delete an existing database in SQL.
- ✓ Use **DROP TABLE** or **DROP TABLE IF EXISTS** to delete an existing table in SQL.

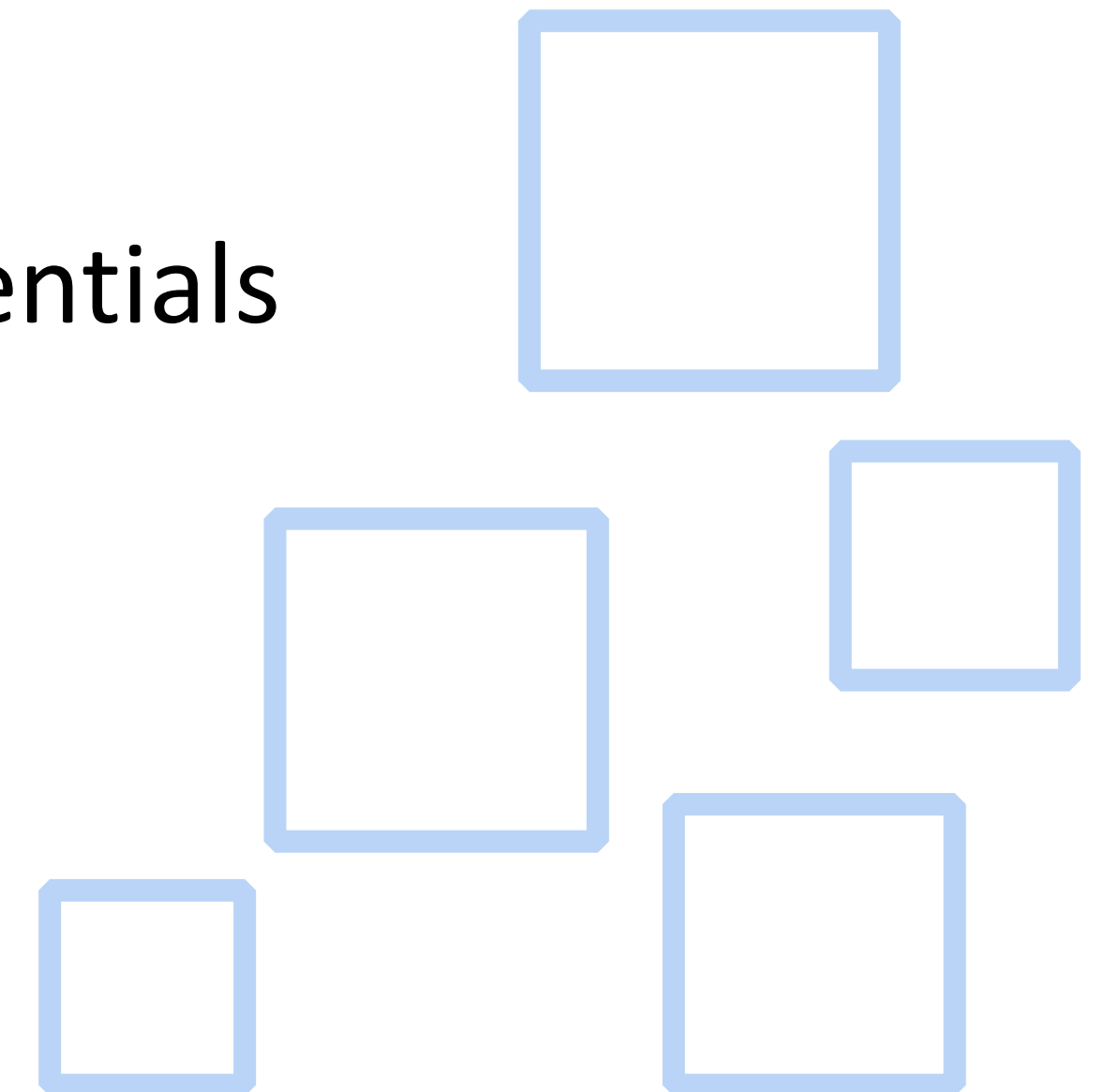


References

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- A. Silberschatz, et. al., Database System Concepts.
- R. K. Rainer, et. al., Introduction to Information Systems.
- G. M. Marakas et. al., Introduction to Information Systems: Essentials for The e-Business Enterprise.

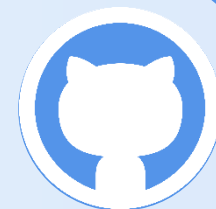


Course



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