



**Kampus
Merdeka**
INDONESIA JAYA



SQL STATEMENT: **CREATE**

Bachelor of Information Systems

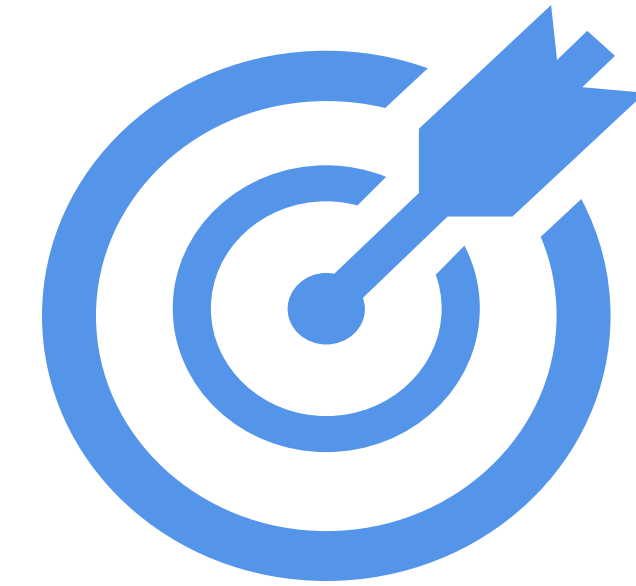


INTRODUCTION TO
DATABASE AND INFORMATION SYSTEM



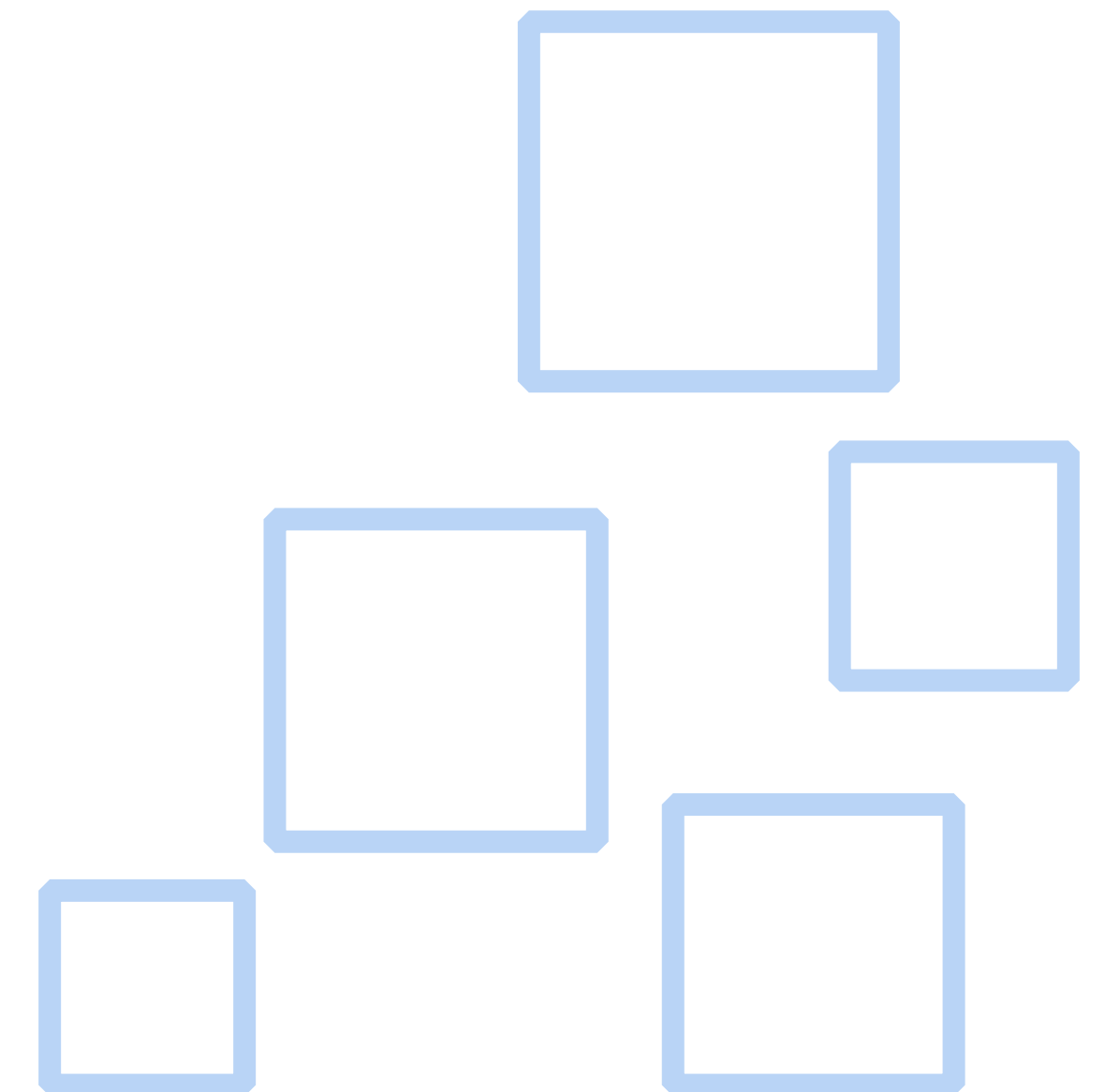
Learning Objective(s)

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This material should address the following question(s).

- ? How do we create a new database in SQL?
- ? How do we create a new table in a database in SQL?



Question



How do we create a **new database** in SQL?

First thing first

Databases can be created using different query languages, and SQL is one such language.

CREATE DATABASE

- Use **CREATE DATABASE** to create a new database in SQL.
- Syntax:
CREATE DATABASE DatabaseName;
- Once a database is created, check it in the list of databases with **SHOW DATABASES**.

Example:

```
CREATE DATABASE Library;
```

```
SHOW DATABASES;
```

Output:

Database
master
performance_schema
information_schema
mysql
Library

Question



How do we create a **new table** in a database in SQL?

First thing first

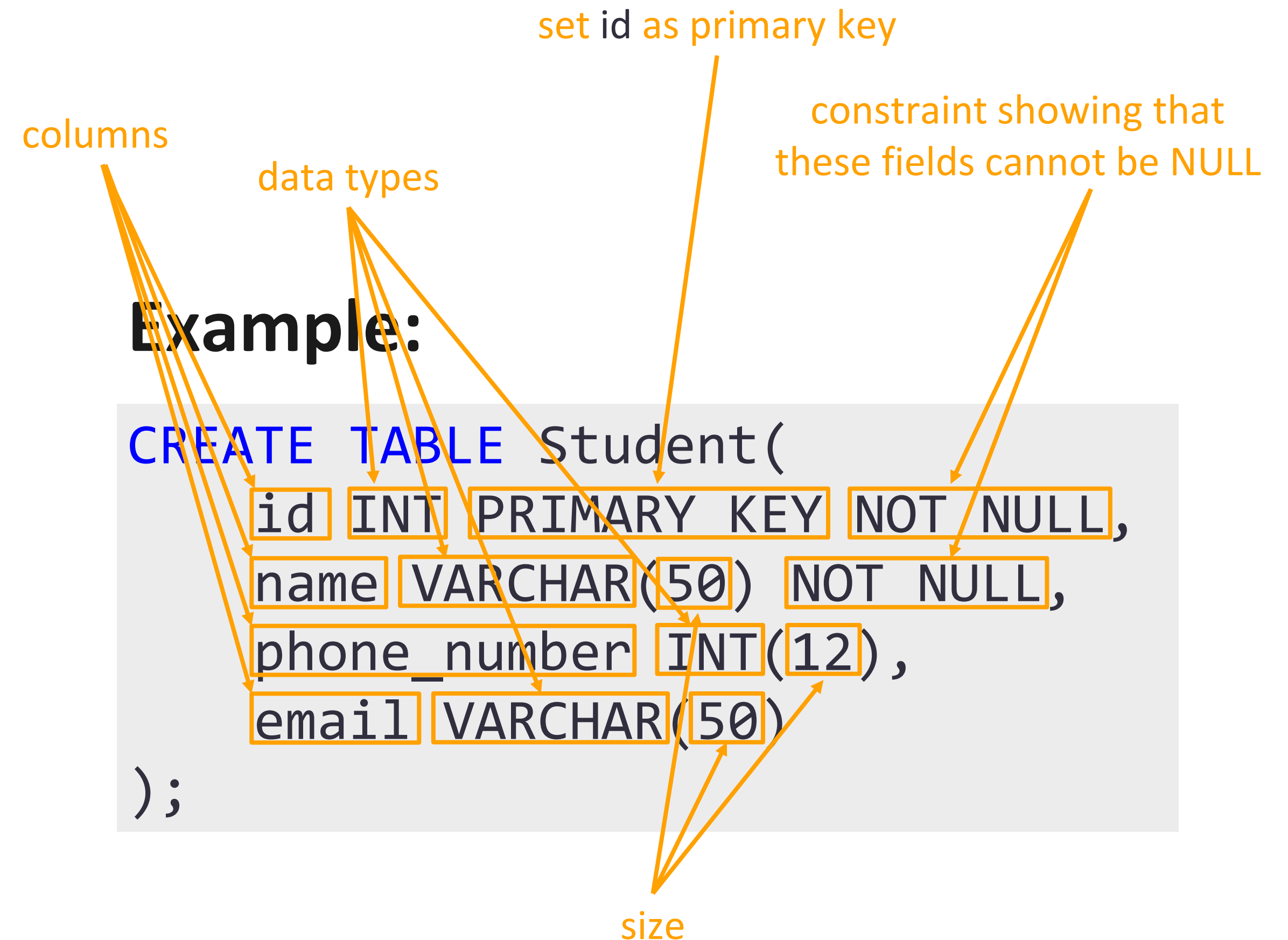
A Table is a combination of rows and columns.

CREATE TABLE

- For creating a table we have to define the structure of a table by adding **names** to columns and providing **data type** and **size of data** to be stored in columns.

- Syntax:

```
CREATE TABLE TableName (  
    column1 datatype(size),  
    columnN datatype(size)  
);
```



Output:

Student

id	name	phone_number	email

DESC

- Use **DESC** or **DESCRIBE** to verify if you have created a table successfully.
- Syntax:
DESC TableName;
OR
DESCRIBE TableName;

Example:

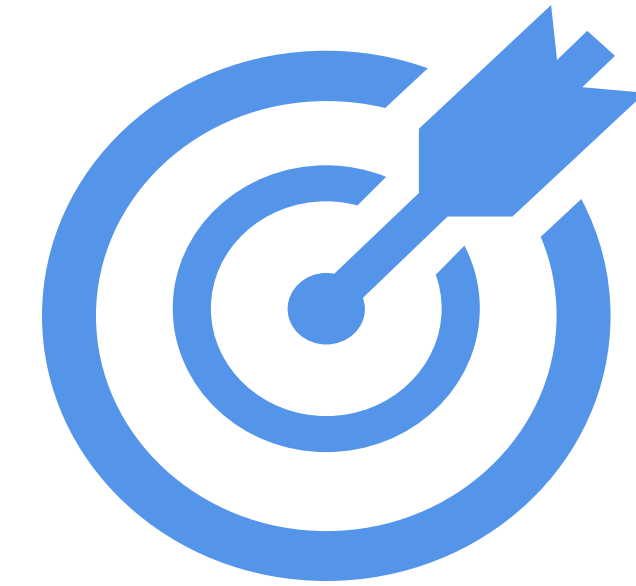
```
DESC Student;
```

Output:

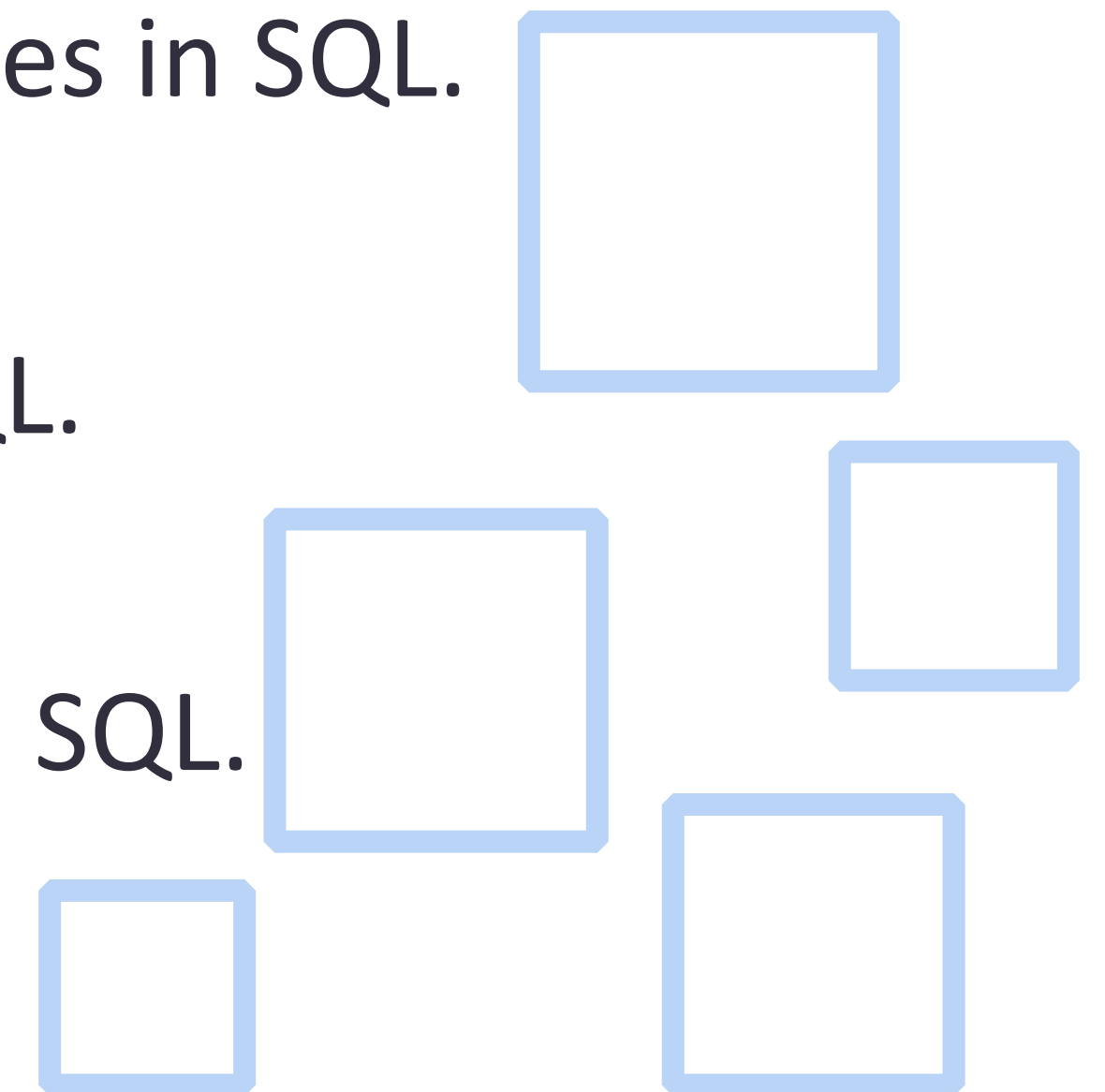
FIELD	TYPE	NULL	KEY	DEFAULT	EXTRA
id	int(11)	NO	PRI		
name	varchar(50)	NO			
phone_number	int(12)	YES		NULL	
email	varchar(50)	YES		NULL	

Conclusion

.....



- ✓ Use **CREATE DATABASE** to create a new database in SQL.
- ✓ Use **SHOW DATABASES** to list down all the available databases in SQL.
- ✓ Use **CREATE TABLE** to create a new table in a database in SQL.
- ✓ Use **DESCRIBE** or **DESC** to describe the structure of a table in SQL.

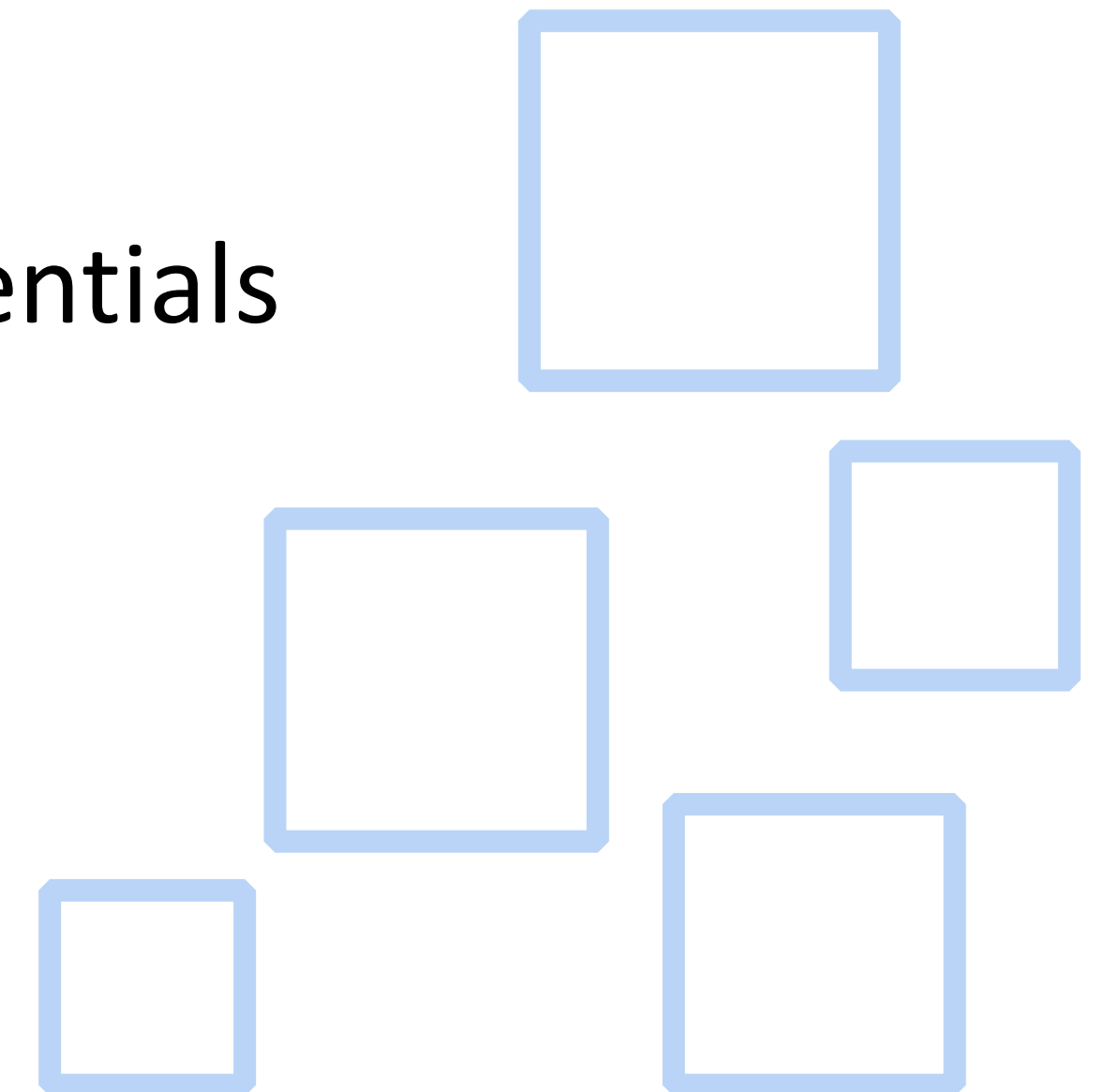


References

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- A. Silberschatz, et. al., Database System Concepts.
- R. K. Rainer, et. al., Introduction to Information Systems.
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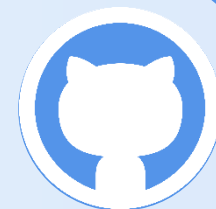


Course



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