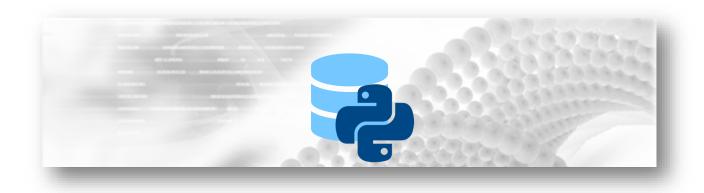
# ACLS

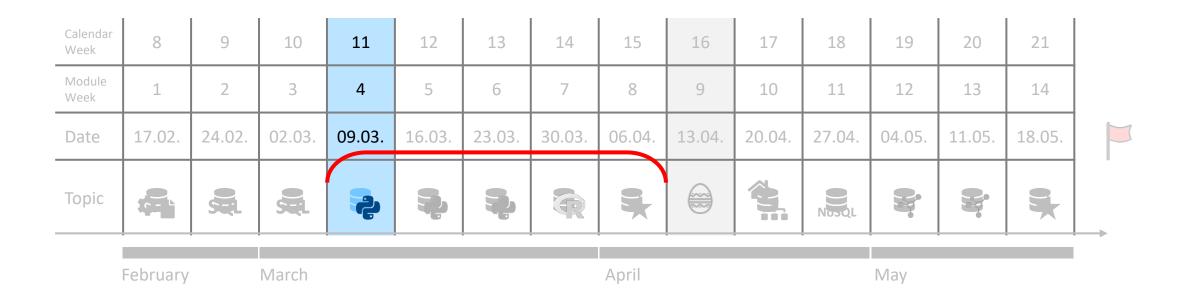
# Databases



SS 2020 – Week 4 March 9

#### ACLS | DDAS | Database & F

### Schedule





Introduction & RDB



Data Warehouse



Structured Query Language

Not only SQL



Database & Python



**Graph Database** 



Database & R



Special





• Review		5′
• Project – Task 1		20′
Python and MySQL		65′
Python and SQLite		45′
• Exercises	عر	90′







•	Review		5'
•	Project – Task 1		20′
•	Python and MySQL		65′
•	Python and SQLite		45′
•	Exercises	عو	90'







### Review (1/4)

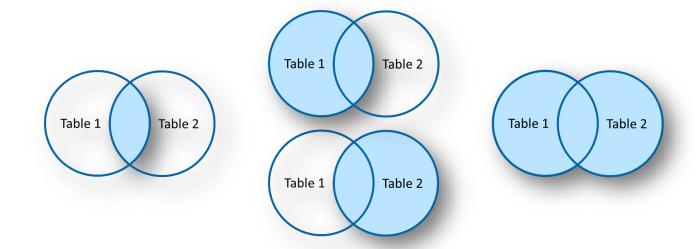
#### **JOINS**

#### Syntax

SELECT table1.attribute1, table1.attribute2, ..., table2.attribute1, table2.attribute2, ... FROM table1

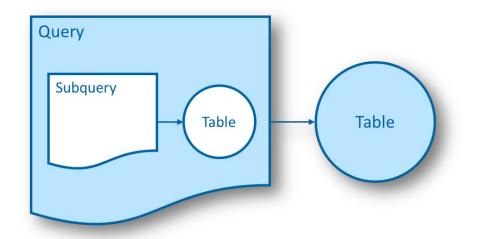
**INNER JOIN** *table2* **ON** *table1.attributeN* = *table2.attributeM1* 

WHERE condition;



### Review (2/4)

#### **NESTED QUERIES**

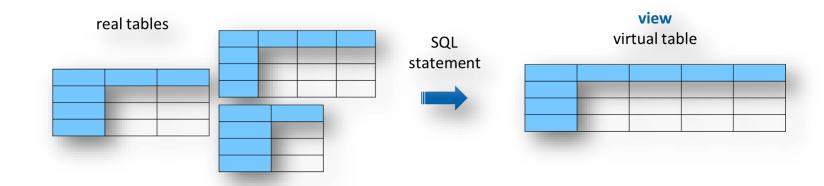


#### Example

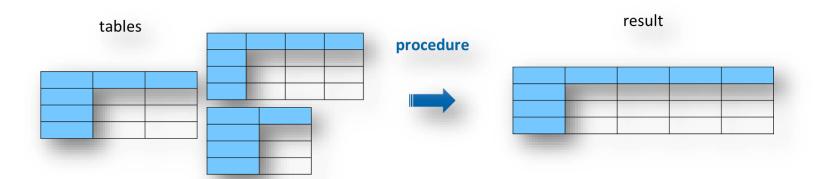


Views – Procedures

A <u>view</u> is a <u>virtual table</u> based on the result of an SQL query.



A **procedure** is a **subroutine** that can be called with parameters.



### Review (4/4)

#### **SQLite**

#### your code

```
#include <stdio.h>
#include <sqlite3.h>

#include <sqlite3.h

#include <sqlite3
```

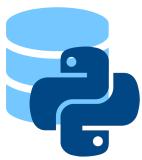


#### database in a file



# Content

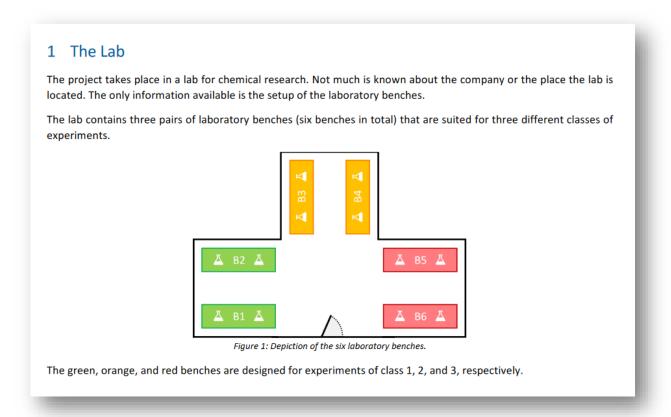
• Review		5′
• Project – Task 1		20′
<ul> <li>Python and MySQL</li> </ul>		65′
<ul> <li>Python and SQLite</li> </ul>		45′
• Exercises	J.	90'





# Project

#### Scenario



### Project

#### Task 1 – Creating the Database



Due on 22<sup>nd</sup> of March



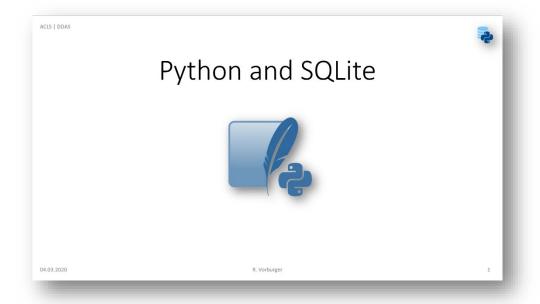
# Content

•	Review		5′
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•	Python and MySQL		65'
•	Python and SQLite		45′
•	Exercises	عو	90'





• Review	5′
<ul><li>Project – Task 1</li></ul>	20'
<ul> <li>Python and MySQL</li> </ul>	65′
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<ul> <li>Python and SQLite</li> </ul>	45′



### Content

•	Review		5′
•	Project – Task 1		20′
•	Python and MySQL		65′
•	Python and SQLite		45′
•	Exercises	عو	90′

