Practical B
DBMS

DBMS

In this exercise, you will create a database containing timetable information for this semester. Please use the example timetable on the next page. We will be using SQLite for this exercise, you can do this on your own machine or at https://sqliteonline.com/.

Part A:

Create a relation with a name "timetable" with the following attributes:

- class: the 4char/4digit code for the class
- activity: the kind of activity (eg, computer lab, workshop)
- day: three letter day code (eg thu)
- start_time: 24hour start time
- duration: the duration of the activity in hours

Record the SQL command that you used to create your relation.

Part B:

Insert records into the relation "timetable" according to the example above.

Verify that you have inserted the correct data using a "select" query.

Record the "insert" and "select" commands that you have used.

Part C:

Alter the relation "timetable" so that it now includes a new attribute end_time, which is calculated as end_time = start_time + duration. Once the "end_time" attribute has been created, delete the "duration" attribute. Display your modified table using another "select" query.

Record the SQL commands that you used to modify the table.

UNIT CODE	UNIT TITLE
COMP5004	Advanced Computing Topics
COMP5009	Data Mining
COMP5008	Data Structures and Algorithms
COMP5005	Fundamentals of Programming
COMP5001	Theortcl Foundts Comp Sci

Calendar

	Monday	Tuesday	Wednesday	Thursday	Friday
08:00		COMP5005 *Large Group Collaborative Session*	COMP5005 *Computer Laboratory*		
09:00					
10:00		COMP5001 *Workshop*			
11:00	COMP5008 *Large Group Collaborative Session*				
12:00	COMP5001 *Large Group Collaborative Session*	COMP5004 *Online Lecture*			
13:00	COMP5009 *Computer Laboratory*				
14:00					COMP5004 *Tutorial*
15:00					
16:00		COMP5008 *Computer Laboratory*			
17:00					
18:00				COMP5009 *Workshop*	
19:00					
20:00					
21:00					

Data Preparation

See blackboard for the link to the jupyter notebook that we'll be using for this.