# SQL: SELECT, FROM, WHERE

COMS10012 Software Tools

# SELECT



#### SELECT

```
SELECT <columns> FROM <tables>
   [WHERE <conditions>];

<columns> ::= * | <column> [, <column>...]
<tables> ::=  [, ...]
```

## **SELECT**

### SELECT id, title, cp FROM Unit;

id	title	ср
11	Databases	10
12	Web Technologies	10
13	Programming and Algorithms	20
14	Computer Architecture	30
15	Overview of Computer Architecture	20
16	Security 101	10

## DISTINCT

SELECT cp
FROM Unit;

20

10

SELECT DISTINCT cp
FROM Unit;

## Aliasing (part 1)

# WHERE



#### WHERE

```
WHERE <condition>
```

## WHERE

```
SELECT id, title FROM Unit
WHERE (level = '3' OR level = 'M')
AND director = 36;
```

## IN (part 1)

### LIKE

```
<condition> ::= ...
    <column> [NOT] LIKE <pattern>
SELECT username FROM Student
WHERE name LIKE 'D%';
```

### **Functions**

```
SELECT id FROM Lecturer
WHERE UPPER(name) = 'DAVID';

SELECT id FROM Lecturer
WHERE SUBSTRING(name, 1, 5) = 'David';
```

# Aliasing (part 2)