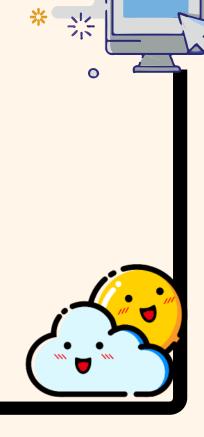




#### 今日内容 CONTENTS

- 1. 期末考纲
- 2. 知识点复习
- 3. 习题演练







# 评分标准

#### CONTENTS

#### COMP3311**课程评分**

| Item         | Topics      | Due         | Marks | Contributes to  |
|--------------|-------------|-------------|-------|-----------------|
| Quizzes      | All topics  | Weeks 2-10  | 18%   | 1,2,3,4,5,6,7,8 |
| Assignment 1 | SQL Schema  | Week 4      | 12%   | 2               |
| Assignment 2 | SQL/PLpgSQL | Week 7      | 16%   | 3,4             |
| Assignment 3 | Python/SQL  | Week 10     | 14%   | 5               |
| Final Exam   | All topics  | Exam period | 40%   | 1,2,3,4,5,6,7,8 |







#### 如何考高分 CONTENTS



- 独立完成, 勿要有侥幸心理;
- · 考前准备好课件/配置好环境;







**CONTENTS** 

- Thursday 3rd December
- 10am ~ 10pm AEDT
- · 题型: Programming \* 7 + written question \*5
- ・ 需要时长: 3hr+
- ・ 提交方式: give/Webcms3







**CONTENTS** 

#### 考察方式:

- 编程:
  - SQL/PLpgsql
  - Python
- 理论:
  - Data Modelling
  - Relational Algebra
  - Relational Design Theory (FD, NF)







**CONTENTS** 

#### 复习方法:

- 每周的quiz再做一遍 (重要)
  Tutorial 复习
- Exercise复习







**CONTENTS** 

#### 考前准备:

- 1. Slides
- 2. 如何上传下载文件至vlab
- 3. 本地安装pg server
- 4. 如何导入dump文件







## Week1核心内容讲解

- 1. ER图怎么画
- 2. ER图 -> Relational Model





# Week2核心内容讲解

- 1. SQL基础语法
- 2. ER图 -> SQL





## Week3~4核心内容讲解

\* \* \*

- 1. SQL Queries
- 2. View如何创建
- 3. In/Exists/From/With



SQL ... Sample DB ... Updating ... Querying (i) ... Views ... Querying (ii)

SQL ... Sets (iii) ... Groups (iv) ... Abstraction (iv) ... Stored Procedures ... PLpgSQL (i)



# Week5~6核心内容讲解

\* \*

- 1. PLpgsql Function
- 2. Constraints
- 3. Triggers





# Week7核心内容讲解

- 1. Python基础
- 2. Psycopg2库





# Week8核心内容讲解



- 2. Normal Forms
- 3. Normal Form decomposition





## Week9~10核心内容讲解

\* \*\*

- 1. Relational Algebra
- 2. Join
- 3. Division
- 4. Transactions





