



Easy Education



COMP3311 期末复习-1

讲师: Rey



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今日内容

CONTENTS

1. 期末考纲
2. 知识点复习
3. 习题演练





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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





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如何考高分

CONTENTS

- 实践! 每周的practice要多练习!
- 独立完成, 勿要有侥幸心理;
- 考前准备好课件/配置好环境;





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Final Exam

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`





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Final Exam

CONTENTS

考察方式:

- 编程:

- SQL/PLpgsql
- Python

- 理论:

- Data Modelling
- Relational Algebra
- Relational Design Theory (FD, NF)





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Final Exam

CONTENTS

复习方法:

1. 每周的quiz再做一遍 (重要)
2. Tutorial 复习
3. Exercise 复习





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Final Exam

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

PLpgSQL (ii) ... PLpgSQL (iii) ... Constraints ... Triggers ... Aggregates



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Week7核心内容讲解

1. Python基础
2. Psycopg2库

Programming with DBMSs ... Python (i) ... Psycopg2 ... Python (ii)



Week8核心内容讲解

1. Functional Dependency
2. Normal Forms
3. Normal Form decomposition

Relational Design ... Functional Dependency ... Closures/Covers ... Normal Forms ... Normalisation



Week9~10核心内容讲解

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

Relational Algebra ... Set Operations ... Join Operations ... Query Execution ... Performance Tuning



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Whats next?





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完结 撒花

