Easy Education

COMP3311 期末复习-2

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今日内容

CONTENTS

1. 知识点复习
2. 习题演练

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ER-Diagram

1. ER图怎么画
2. ER图 -> Relational Model

Data Models ... ER Model ... Relational Model ... ER→Rel Mapping

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SQL basics

1. SQL基础语法
2. ER图 -> SQL
3. View如何创建
4. In/Exists/From/With
5. PLpgsql Function
6. Constraints
7. Triggers

SQL Intro ... RDBMSs ... SQL Expressions ... SQL DDL ... ER→SQL Mapping
SQL ... Sample DB ... Updating ... Querying (i) ... Views ... Querying (ii)
SQL ... Sets (iii) ... Groups (iv) ... Abstraction (iv) ... Stored Procedures ... PLpgSQL (i)

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Python + SQL

1. **Python基础**
2. **Psycopg2库**

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

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RDB Design Theory

1. **Functional Dependency**
2. **Normal Forms**
3. **Normal Form decomposition**
4. **Relational Algebra**
5. **Join**
6. **Division**
7. **Transactions**

Relational Design ... Functional Dependency ... Closures/Covers ... Normal Forms ... Normalisation
Relational Algebra ... Set Operations ... Join Operations ... Query Execution ... Performance Tuning

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完结 撒花