课程教学进度计划表

Teaching Schedule

一、基本信息Basic Information

|  |  |
| --- | --- |
| 课程名称Course Name | 数据库原理及应用（双语）Principle and Application of Database (Bilingual) |
| 课程代码Course Code | 2140020 | 课程序号Course id | 1840 | 课程学分/学时Course Credits / Teaching Hour | 3/48 |
| 授课教师Tutor | 余莉Li Yu | 教师工号Teacher ID | 08041 | 专/兼职Full/Part time | 专职Full Time |
| 上课班级Class | 数媒B22-3Bachelor in Digital Media TechnologyB22-3 | 班级人数class size | 44 | 上课教室Venue | 计算中心203 Computer center, room 203一教206Teaching building No.1, room 206 |
| 答疑安排Q&A Time | 周三3~4，周四3~4 信息学院222Wednesday 3~4, Thursday 3~4, College of information technology, room 222 |
| 课程号/课程网站 | 11614831https://mooc1.chaoxing.com/course-ans/courseportal/227771061.html |
| 选用教材Teaching Materials | 数据库系统概念（本科教学版），（美）Abraham Silberschatz等，机械工业出版社，原书第7版Database System Concept, (US) Abraham Silberschatz et., Higher Education Press, Version 7 Edition |
| 参考教材与资料Bibliography | Database Illuminated, Catherine M. Ricardo and Susan D. Urban, Jones & Bartlett Learning, 3rd Edition |

二、课程教学进度安排Teaching Schedule

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 课次Time | 课时Class Hour | 教学内容Topics | 教学方式Teaching Methods | 作业Assignment |
| 1~2 | 4 | **Chapter 1 Introduction** **第1章 引言** | Lecture and Discussion授课与讨论 |  |
| 3~5 | 6 | **Chapter 2 Introduction to the Relational Model** **第2章 关系模型介绍****Chapter 6 The Relational Algebra****第6章 关系代数** | Lecture and Discussion授课与讨论 | Homework-Chapter2第6章 家庭作业 |
| 6~9 | 8 | **Chapter 7 Database Design Using the E-R Model****第7章 使用E-R模型的数据库设计**The Entity-Relationship Model, Constraints, Entity-Relationship Diagrams, Reduction to Relational Schema实体-联系模型、约束、实体-联系图、转换为关系模式 | Lecture and Discussion授课与讨论 | Team Work小组团队作业 |
| 10~14 | 10 | **Chapter 3 Introduction to SQL** **第3章 SQL简介**SQL Data Definition, Basic Structure of SQL Queries, Aggregate Functions, Nested Sub-queries, Modification of the DatabaseSQL数据定义、SQL查询的基本结构、聚集函数、嵌套子查询、修改数据库 | Lecture and Discussion授课与讨论 | Homework-Chapter3第3章 家庭作业 |
| 15-18 | 8 | **Chapter 4 Intermediate SQL** **第4章 中级SQL**Join Expressions, Views, Integrity Constraints连接表达式、视图、完整性约束 | Lecture and Discussion授课与讨论 | Homework-Chapter4第4章 家庭作业 |
| 19~20 | 4 | **Chapter 5 Advanced SQL** **第5章 高级SQL** Accessing SQL From a Programming Language, Functions and Procedures, Triggers使用程序设计语言访问数据库、函数和过程、触发器 | Lecture and Discussion授课与讨论 |  |
| 21~23 | 6 | **Chapter 8 Relational Database Design** **第8章 关系数据库设计**Features of Good Relational Designs, Normal Form, Functional Dependencies好的关系设计的特点、范式、函数依赖**Chapter 13 Transactions** **第13章 事务**Concept, fundamentals of transaction事务概念、事务处理系统的基本性质 | Lecture and Discussion授课与讨论 |  |
| 24 | 2 | Review week, this week's teaching task is to lead students achieving a comprehensive and systematic review. Effectively check the omissions and make up for the deficiencies, in order to help students consistently understand all the knowledge points explained in this semester.复习周，本周的教学任务是带领学生全面、系统的复习。有效地检漏补缺，帮助学生理解本学期所讲解的所有知识点。 | Q&A: the questions for the report of team work授课，问答，主要针对团队报告的释疑 | Review all Chapters and A Report & Case Study章节复习及报告与案例学习 |

三、考核方式Course Assessment

|  |  |  |
| --- | --- | --- |
| 总评构成Grading Computation | 占比 Weightage | 考核方式Assessment Index |
| X1 | 50% | 个人项目报告Final Personal Report（2000 words） |
| X2 | 20% | 过程考核：个人作业Personal Work（800 words） |
| X3 | 20% | 过程考核：小组团队作业Team Work（1200 words） |
| X4 | 10% | 过程考核：课堂表现、出勤等Class Performance |

任课教师Signed by Instructor：余莉

系主任审核Signed by Teaching Supervisor：矫桂娥

日期Date：2024年9月