BitWith Bite

SQL WORKSHEET

Database Design & ERDs

Chapter: SQL · Level ★☆☆ · Time: 30 min

SCORE ___ / 20

Name _____ Class _____ Date _____

AFTER THIS WORKSHEET YOU CAN

✓ Model entities and relationships ✓ Draw ERDs ✓ One-to-many vs many-to-many ✓ Junction tables

Section A · Concept Check • BEGINNER 4 × 1 = 4

1 An ERD shows:

◯ A. entities and relationships ◯ B. errors ◯ C. styles ◯ D. servers

2 One customer, many orders is:

◯ A. 1:1 ◯ B. 1:N ◯ C. N:M ◯ D. 0:0

3 Many-to-many needs a:

◯ A. junction table ◯ B. bigger column ◯ C. trigger ◯ D. view

4 students-courses is naturally:

◯ A. 1:1 ◯ B. 1:N ◯ C. N:M ◯ D. none

Section B · Problem Solving • INTERMEDIATE 2 + 3×3 = 11

5 A real-world thing (user, order) is an _____.

6 1:N means one parent, many _____.

7 Design tables for authors and books (an author writes many books).

8 Design students-courses enrolment.

9 Why not store a list of course ids in one column?

Section C · Challenge • CHALLENGE 5

10 What relationship is passport-person?

Reflection — the most useful thing I learned: _____

A ___/4 B ___/11 C ___/5 Total ___/20

Teacher's Signature

Parent's Signature

✂ ANSWER KEY — FOLD OR CUT BEFORE HANDING OUT

1-A 2-B 3-A 4-C | 5 entity 6 children 7 = authors(id,...), books(id, author_id FK, ...) 8 = students, courses, enrolments(student_id, course_id) 9 = Breaks 1NF - impossible to query/join properly | 10 = 1:1