

FIT9132 Introduction to databases - S1 2022

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Started on Friday, 22 April 2022, 2:22 PM

State Finished

Completed on Wednesday, 15 June 2022, 12:42 AM

Time taken 53 days 10 hours

Marks 8.00/13.00

Grade 6.15 out of 10.00 (62%)

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Question 1

Correct

Mark 1.00 out of 1.00

A _____ derives its name from the fact that a collection of multiple entries of the same type can exist for any single key attribute occurrence.

Select one:

- ☐ a. primary key
- ☐ b. transitive dependency
- ☐ c. partial dependency
- ☒ d. repeating group

✓ Correct

The correct answer is: repeating group

Question 2

Correct

Mark 1.00 out of 1.00

A(n) _____ exists when there are functional dependencies such that Y is functionally dependent on X, Z is functionally dependent on Y, and X is the primary key.

Select one:

- ☐ a. partial dependency
- ☐ b. repeating group
- ☒ c. transitive dependency
- ☐ d. atomic attribute

✓ Correct

The correct answer is: transitive dependency

Question 3

Correct

Mark 1.00 out of 1.00

Normalization works through a series of stages called normal forms. For most purposes in business database design, _____ stages are as high as you need to go in the normalization process.

Select one:

- ☐ a. two
- ☐ b. four
- ☒ c. three
- ☐ d. five

✓ Correct

The correct answer is: three

Question 4

Correct

Mark 1.00 out of 1.00

A relation that has key attributes defined and has no repeating groups is said to be in _____.

Select one:

- ☒ a. 1NF
- ☐ b. 2NF
- ☐ c. 3NF
- ☐ d. UNF

✓ Correct

The correct answer is: 1NF

Question 5

Correct

Mark 1.00 out of 1.00

Given the relation PROJECT(PROJ_NUM, PROJ_NAME), what is the highest form this relation is in:

Select one:

- ☒ a. 3NF
- ☐ b. UNF
- ☐ c. 2NF
- ☐ d. 1NF

✓ Correct

The correct answer is: 3NF

Question 6

Incorrect

Mark 0.00 out of 1.00

Given the relation EMPLOYEE (EMP_NUM, EMP_NAME, JOB_CLASS, CHG_HOUR), which is the highest form this relation is in:

Select one:

- ☐ a. 2NF
- ☐ b. UNF
- ☒ c. 1NF
- ☐ d. 3NF

✗ Incorrect

The correct answer is: 2NF

Question 7

Correct

Mark 1.00 out of 1.00

Given the relation ASSIGNMENT (PROJ_NUM, EMP_NUM, PROJ_NAME, EMP_NAME, JOB_CLASS, CHG_HOUR, HOURS), which of the following is a transitive dependency?

Select one:

- ☐ a. PROJ_NUM, EMP_NUM --> HOURS
- ☐ b. EMP_NUM → EMP_NAME
- ☒ c. JOB_CLASS → CHG_HOUR
- ☐ d. PROJ_NUM → PROJ_NAME

✓ Correct

The correct answer is: JOB_CLASS → CHG_HOUR

Question 8

Incorrect

Mark 0.00 out of 1.00

Given the relation ASSIGNMENT (PROJ_NUM, EMP_NUM, EMP_NAME, PROJ_NAME, JOB_CLASS, CHG_HOUR, HOURS) and PROJ_NUM → PROJ_NAME is a partial dependency, which of the following is a correct elimination result for **this** partial dependency?

Select one:

- ☐ a. PROJECT (PROJ_NUM, PROJ_NAME)
ASSIGNMENT (PROJ_NUM, EMP_NUM, EMP_NAME, JOB_CLASS, CHG_HOUR, HOURS)
- ☒ b. PROJECT (PROJ_NUM, PROJ_NAME)
ASSIGNMENT (PROJ_NUM, EMP_NUM, EMP_NAME, PROJ_NAME, JOB_CLASS, CHG_HOUR, HOURS)
- ☐ c. PROJECT (PROJ_NUM, PROJ_NAME, JOB_CLASS, CHG_HOUR, HOURS)

✗ Incorrect

PROJECT (PROJ_NUM, PROJ_NAME, JOB_CLASS, CHG_HOUR, HOURS)
ASSIGNMENT (PROJ_NUM, EMP_NUM, EMP_NAME)

- ☐ d. PROJECT (PROJ_NUM, PROJ_NAME)
ASSIGNMENT (EMP_NUM, EMP_NAME, JOB_CLASS, CHG_HOUR, HOURS)

The correct answer is:

PROJECT (PROJ_NUM, PROJ_NAME)
ASSIGNMENT (PROJ_NUM, EMP_NUM, EMP_NAME, JOB_CLASS, CHG_HOUR, HOURS)

Question 9

Correct

Mark 1.00 out of 1.00

Dependencies based on only a part of a composite primary key are known as _____ dependencies.

Select one:

- ☐ a. composite
☐ b. incomplete
☒ c. partial
☐ d. transitive

✓ Correct

The correct answer is: partial

Question 10

Incorrect

Mark 0.00 out of 1.00

Given the relation EMPLOYEE (EMP_NUM, EMP_NAME, JOB_CLASS, CHG_HOUR) and JOB_CLASS → CHG_HOUR is a transitive dependency, which of the following is a correct transitive dependency elimination result?

Select one:

- ☒ a. ✗ Incorrect
JOB (JOB_CLASS, CHG_HOUR)
EMPLOYEE (EMP_NUM, EMP_NAME)
- ☐ b.
JOB (EMP_NUM, JOB_CLASS, CHG_HOUR)
EMPLOYEE(EMP_NUM, EMP_NAME)
- ☐ c.
JOB (JOB_CLASS, CHG_HOUR)
EMPLOYEE (EMP_NUM, EMP_NAME, JOB_CLASS, CHG_HOUR)
- ☐ d.
JOB (JOB_CLASS, CHG_HOUR)
EMPLOYEE(EMP_NUM, EMP_NAME, JOB_CLASS)

The correct answer is:

JOB (JOB_CLASS, CHG_HOUR)

EMPLOYEE(EMP_NUM, EMP_NAME, JOB_CLASS)

Question **11**

Correct

Mark 1.00 out of 1.00

A relation that is in 2NF and contains no transitive dependencies is said to be in _____.

Select one:

- ☐ a. UNF
- ☐ b. 2NF
- ☐ c. 1NF
- ☒ d. 3NF

✓ Correct

The correct answer is: 3NF

Question **12**

Incorrect

Mark 0.00 out of 1.00

Given the relation ASSIGNMENT (PROJ_NUM, EMP_NUM, PROJ_NAME, EMP_NAME, JOB_CLASS, CHG_HOUR, HOURS), which of the following is a partial dependency?

Select one:

- ☐ a. PROJ_NUM, EMP_NUM \rightarrow JOB_CLASS
- ☐ b. JOB_CLASS \rightarrow CHG_HOUR
- ☒ c. PROJ_NUM, EMP_NUM \twoheadrightarrow CHG_HOUR
- ☐ d. EMP_NUM \rightarrow EMP_NAME, JOB_CLASS, CHG_HOUR

✗ Incorrect

The correct answer is: EMP_NUM \rightarrow EMP_NAME, JOB_CLASS, CHG_HOUR

Question **13**

Incorrect

Mark 0.00 out of 1.00

Dependencies that are based on only a part of a composite primary key are called transitive dependencies.

Select one:

- ☒ True ✗

☐ False

The correct answer is 'False'.

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