MONASH University

FIT2001 Systems development - November 2020
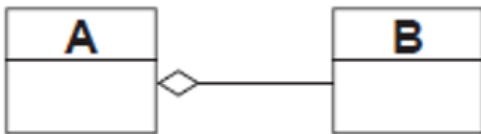
Started on	Wednesday, 16 December 2020, 8:11 PM
State	Finished
Completed on	Wednesday, 16 December 2020, 8:19 PM
Time taken	8 mins 1 sec
Grade	**3.00** out of 5.00 (**60**%)

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Question **1**

Correct

Mark 1.00 out of 1.00

Which of the following statements about the following diagram is true?

Select one:

○ If an instance of B is deleted, all contained instances of A are also deleted

○ A is part of B

○ If an instance of A is deleted, all contained instances of B are also deleted

◉ If an instance of A is deleted, the contained instances of B are not affected. ✔

Your answer is correct.

- If an instance of A is deleted, the contained instances of B are not affected - correct answer as the component part exists separately and can be removed and replaced
- A is part of B - It is the other way round: B is part of A.
- If an instance of A is deleted, all contained instances of B are also deleted - This would only be the case when a composition (composite aggregation) is modelled.
- If an instance of B is deleted, all contained instances of A are also deleted - It is the other way round: B is part of A. In addition to that, this would only be the case when a composition (composite aggregation) is modelled.

The correct answer is: If an instance of A is deleted, the contained instances of B are not affected.
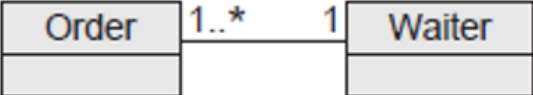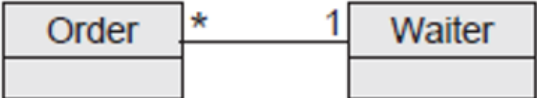

Question 2

Incorrect

Mark 0.00 out of 1.00

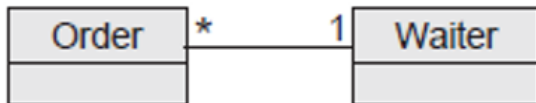How do you model the following situation with a class diagram:
An order is placed with exactly one waiter, and a waiter can handle multiple orders

Select one:

○ Order 1..*   1 Waiter

○ Order *   * Waiter

◉ Order 1   * Waiter   ✖

○ Order *   1 Waiter

Your answer is incorrect.

Business rules: An order is placed with exactly one waiter, and a waiter can handle multiple orders
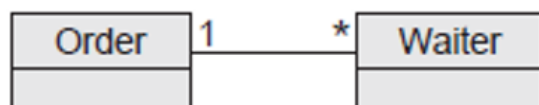
Order *   1 Waiter   Correct answer As an order is placed with exactly one waiter, then the

multiplicity at the waiter end is exactly 1, and a waiter can handle multiple orders the multiplicity at the order end is * which could also
be shown as 0..*
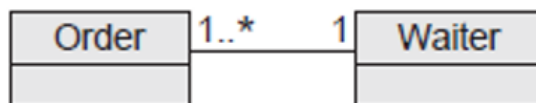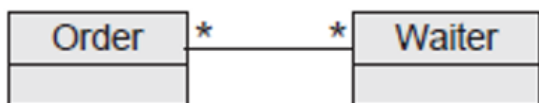
Order 1..*   1 Waiter   Incorrect answer. This shows an order is placed with exactly one waiter, and a

waiter must handle at least one order, and can handle multiple orders

Order 1   * Waiter   Incorrect answer. This shows an order can be placed with no waiters or
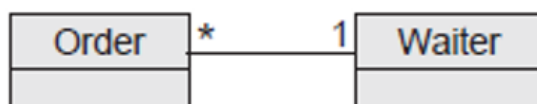
multiple waiters, and a waiter must handle only one order

Order *   * Waiter   Incorrect answer. This shows an order can be placed with no waiters or

multiple waiters, and a waiter can handle 0 to multiple orders

The correct answer is: Order *   1 Waiter

Question **3**

Correct

Mark 1.00 out of 1.00

Which of the following would NOT be a reasonable way of identifying the classes for your domain model class diagram?

Select one:

○ Identifying the nouns from descriptions of the information you have gathered from interviews and workshops with the users

◉ Asking the user at a story mapping workshop for a list of all the classes required for the UML domain model class diagram ✔

○ Brainstorm with the user to identify the THINGS involved when carrying out their user stories

○ Review the Use Case Descriptions describing the business functionality of the new system and identify the nouns

Your answer is correct.

- Asking the user at a story mapping workshop for a list of all the classes required for the UML domain model class diagram (correct answer) - definitely not appropriate as the user would have no idea what you were talking about when you used words such as classes and UML domain model class diagram.
- All the other options are reasonable ways of trying to identify the classes for your domain model class diagram.

The correct answer is: Asking the user at a story mapping workshop for a list of all the classes required for the UML domain model class diagram
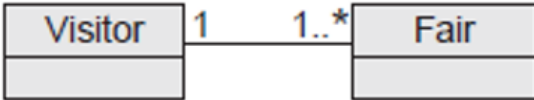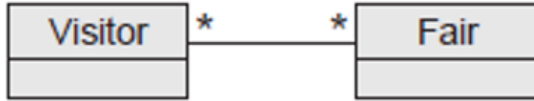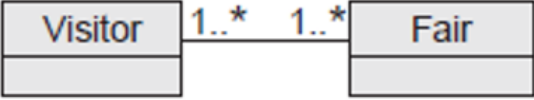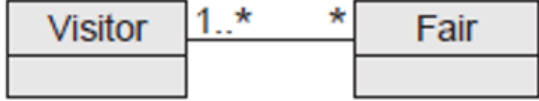
Question **4**

Correct

Mark 1.00 out of 1.00

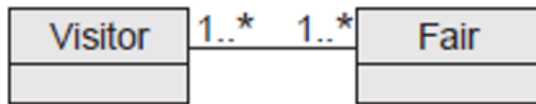How do you model the following situation with a class diagram:
A fair is visited by at least one visitor. One visitor visits at least one fair.

Select one:

○
| Visitor | 1 | 1..* | Fair |

○
| Visitor | * | * | Fair |

◉
| Visitor | 1..* | 1..* | Fair | ✔

○
| Visitor | 1..* | * | Fair |

Your answer is correct.

Business rules: A fair is visited by at least one visitor. One visitor visits at least one fair.

| Visitor | 1..*   1..* | Fair |

Correct answer. A fair must have at least one visitor but can have multiple

visitors, then the multiplicity at the visitor end is a minimum of 1 and a maximum of * shown by 1..* As a visitor must visit at least one fair, but can visit multiple fairs, then the multiplicity at the fair end is a minimum of 1 and a maximum of * shown by 1..*
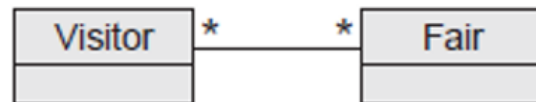
| Visitor | 1   1..* | Fair |
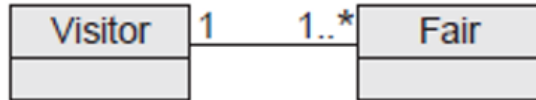
Incorrect answer. This shows a fair can be only visited by one visitor, and a

visitor must visit at least one fair but can visit multiple fairs.

| Visitor | 1..*   * | Fair |
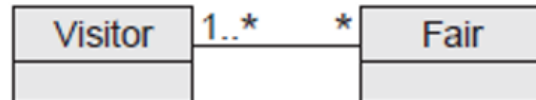
Incorrect answer. This shows a fair must have at least one visitor but can have

multiple visitors, and a visitor may not visit any fairs but can visit multiple fairs.

| Visitor | *   * | Fair |

Incorrect answer. This shows that a fair may have no visitors but could have

multiple visitors, anda visitor may not visit any fairs but can visit multiple fairs.

The correct answer is:

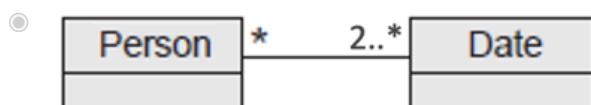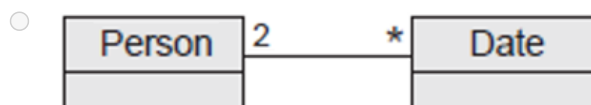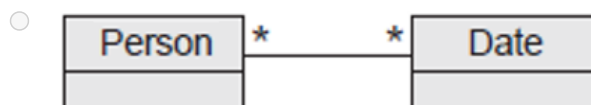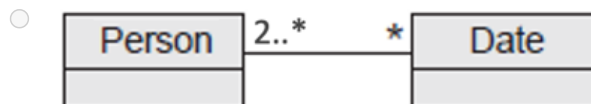| Visitor | 1..*   1..* | Fair |
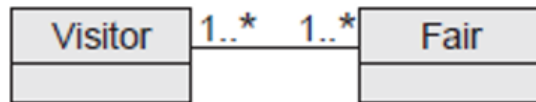
Question **5**

Incorrect

Mark 0.00 out of 1.00

How do you model the following situation with a class diagram:
On a blind date exactly two people take part. A person can take part in multiple blind dates.

Select one:

○ | Person | 2..*   * | Date |

○ | Person | *   * | Date |

○ | Person | 2   * | Date |

◉ | Person | *   2..* | Date | ✖

Your answer is incorrect.

Business rules: On a blind date exactly two people take part. A person can take part in multiple blind dates.
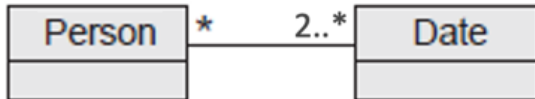
| Person | 2 | * | Date |

Correct answer. On a blind date exactly two people take part - because it is

exactly 2, the multiplicity is shown by 2 with no other possibilities at the person end. A person can take part in multiple blind dates - because it is multiple and there is no minimum, the multiplicity at the date end is shown as * or the alternative can be 0..*
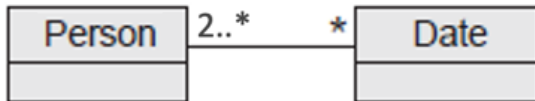
| Person | * | * | Date |

Incorrect answer. This shows that a date may have no persons but could have

multiple persons, and a person may not go on any dates but could go on multiple dates.

| Person | * | 2..* | Date |

Incorrect answer. This shows that a date may have no persons but could have

multiple persons, and a person must go on a minimum of 2 dates, but could go on multiple dates.

| Person | 2..* | * | Date |

Incorrect answer. This shows that a date must have a minimum of 2 persons

but could have multiple persons, and a person may not go on any dates but could go on multiple dates.

The correct answer is: | Person | 2 | * | Date |
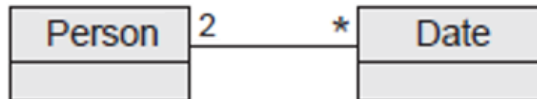
◄ Seminar 7.2 Slides: Design Overview

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