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3.1. Efficient Pattern Mining Methods: The Downward Closure Property of Frequent Patterns In-Lecture Question

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Question

Considering the **Downward Closure Property of Frequent Patterns**, which of the following itemsets are **DEFINITELY** frequent, if we know the itemset {iphone, ipad, macbook pro} is a frequent itemset. Check all that apply.

- ☐ {iphone, ipad}
- ☐ {itouch, ipad}
- ☐ {ipad}
- ☐ {itouch}

Question

Considering the **Downward Closure Property of Frequent Patterns**, which of the following itemsets are **DEFINITELY** frequent, if we know the itemset {iphone, ipad, macbook pro} is a frequent itemset. Check all that apply.

- ☐ {iphone, ipad}
 - ☐ {itouch, ipad}
 - ☐ {ipad}
 - ☐ {itouch}
-
- ☐ **Answers:** {iphone, ipad} and {ipad}
 - ☐ **Explanation:** Any subsets of {iphone, ipad, macbook pro} should be also frequent.