TOPSTechnologies

List Operations

Presented for:

TOPs Technologies

Presented by:

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Que 1

1. Concatenation

Combining two or more lists into a single list using the + operator.

list1 = [1, 2, 3] list2 = [4, 5, 6] result = list1 + list2 print(result) # Output: [1, 2, 3, 4, 5, 6]

2. Repetition

Creating a new list by repeating the elements of an existing list a specified number of times using the * operator.

3. Membership

Checking if an element exists in a list using the in or not in operators.

Introduction to DBMS

list1 = [1, 2, 3, 4, 5]

print(3 in list1) # Output: True

print(6 in list1) # Output: False

print(6 not in list1) # Output: True

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append():

Adds a single element to the end of the list.

Syntax: list.append(element)

- nserts an element at a specified position in the list.
- Syntax: list.insert(index, element)

example list1 = [1, 2, 4] list1.insert(2, 3) print(list1) # Output: [1, 2, 3, 4]

Introduction to DBMS

remove():

- Removes the first occurrence of a specified value in the list.
- Syntax: list.remove(element)

pop():

- Removes and returns the element at a specified index (or the last element if no index is provided).
 - Syntax: list.pop([index])

example list1 = [1, 2, 3]
last_element = list1.pop()
print(last_element) # Output: 3
print(list1) # Output: [1, 2]

specific_element = list1.pop(0)
print(specific_element) # Output: 1
 print(list1) # Output: [2]