

Python Discord Bot

DAY 06

Learn about database

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Exercise 01: Create, Delete & List

SOS	Difficulty:	**
~	Objectives:	Using the Repl.it Database: 1) Create 3 keys and assign them with value 2) List all the available keys in database 3) Delete one of the keys in database 4) List the remaining keys
*	Skills required:	 Repl.it Database Key-value database Adding data to database (Set a key to a value) Access to database (Get a key's value) Delete data in database (Delete a key) List the database (List all keys)
(1)	Resources:	 Using the Replit database How does a Key-Value Work?
Q	Search keywords:	A database for every replitKey-value in database

Code snippet:

```
from replit import db

# create 3 keys in database
# named them with "fruit", "dessert" & "food"
...

print(f"fruit = [your code here]")
print(f"dessert= [your code here]")
print(f"food = [your code here]")

# list all the available keys in database
list_all = [your code here]
print(list_all)

# delete the key named "food"
...

# list the remaining keys
list_remaining = [your code here]
print(list_remaining)
```

```
fruit = ['banana']
dessert = ['cake']
food = ['spaghetti']
{'fruit', 'dessert', 'food'}
{'fruit', 'dessert'}
```

Exercise 02: Add, Delete & List

SOS	Difficulty:	**
•	Objectives:	Using the Repl.it Database: (Continue with Exercise 01) 1) Add one element in fruit 2) Add two elements in dessert 3) Delete one of the elements in dessert 4) List and show all the keys and values available
*	Skills required:	 Repl.it Database Adding data to database (Set a key to a value) Access to database (Get a key's value) List the database (List all keys) Python List append() Method Python del Keyword
	Resources:	 Using the Replit database Python List append() Method Python del Keyword
	Search keywords:	> A database for every replit

Code snippet:

```
from replit import db

# Add one element in fruit
if "fruit" in db.keys():
...

print(f"fruit = [your code here]")

# Add two elements in dessert
if "dessert" in db.keys():
...

print(f"dessert = [your code here]")

# Delete one of the elements in list_2
...

# List and show all the values available
print(f"dessert = [your code here]")
```

```
fruit = ['banana', 'apple']
dessert = ['cake', 'ice cream', 'souffle']
dessert = ['cake', 'ice cream']
```

Exercise 03: Create & List using If...Else

SOS	Difficulty:	**
<u></u>	Objectives:	Using the Repl.it Database: 1) Create a new key in database using if-else statement 2) Add "Good Luck" as a value in the key 3) List and show the value available
*	Skills required:	 Repl.it Database Adding data to database (Set a key to a value) Access to database (Get a key's value) Python List append() Method Python If Else Statement
	Resources:	 Using the Replit database Python List append() Method Python IFELIFELSE Statements
Q	Search keywords:	 A database for every replit Python if else statement

Code snippet:

```
from replit import db

# Create a new key in database using if-else statement
# Add "Good Luck" as a value in the key

send = "Good Luck"

if "message" in db.keys():
...

else:
...

# List and show the value available
print(f"message = [your code here]")
```

```
message = ['Good Luck']
```

Exercise 04: \$new

SOS	Difficulty:	***
***	Objectives:	Use a command to instruct the discord bot to add message to the database.
涔	Skills required:	 String split or String slice Repl.it Database Adding data to database (Set a key to a value)
	Resources:	Using the Replit database
Q	Search keywords:	 Python string split method Python slice string A database for every replit
U	Command required:	\$new [message]

Code snippet:

```
From replit import db

def update_encoragements(encouraging_message):
   if "encouragements" in db.keys():
```

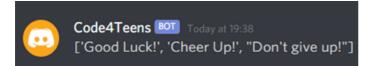


Exercise 05: \$list

SOS	Difficulty:	***
ÿ	Objectives:	Use a command to instruct the discord bot to list all messages stored in database.
涔	Skills required:	 Repl.it Database Read data in database (Get a key's value) Python list Only if you faced "ObservedList" problem in Replit Type function in Python
	Resources:	<u>Using the Replit database</u>
	Search keywords:	> A database for every replit
U	Command required:	\$list

Code snippet:

From replit import db



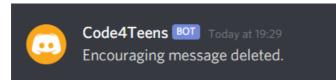
Exercise 06: \$delete

SOS	Difficulty:	***
¥ ·	Objectives:	Use a command to instruct the discord bot to delete specific message from database.
*	Skills required:	 String split or String slice Repl.it Database Access list item in Python Deleting data from database (Delete a key)
	Resources:	<u>Using the Replit database</u>
P	Search keywords:	 Python string split method Python slice string A database for every replit
N	Command required:	\$delete [integer]

Code snippet:

From replit import db

def delete_encouragement(index):



Exercise 07: \$del_list

SOS	Difficulty:	***
~	Objectives:	Use a command to instruct the discord bot to delete specific message from database and show the updated list of messages.
涔	Skills required:	 String split or String slice Repl.it Database Access list item in Python Deleting data from database (Delete a key) Read data in database (Get a key's value) Only if you faced "ObservedList" problem in Replit Type function in Python
	Resources:	Using the Replit database
	Search keywords:	 Python string split method Python slice string A database for every replit
N	Command required:	\$del_list [integer]

Code snippet:

From replit import db

