



AWS雲計算實務班第01期

課程講師：金力鵬

科技系列課程

AWS Non- Relational Database

- **Create DB**
- Attribute value discussion
- Query DB

AWS Non- Relational Database

Create DB

- Create DynamoDB
- Create Table
- Enter data



AWS Non-Relational Database



建立 Create Non-relational DB



Sample file(.CSV)

全校通學教學平台數據 - Excel

Platform	Synchronize	Asynchronous	Hybrid Synchronization
Tronclass	733	322	315
Line	548	181	216
Google Meet	291	7	226
Microsoft Teams	112	10	147
Youtube	3	87	104
Facebook	12	10	76
Internet Academy	0	69	0
Other	28	104	73



Notations

Partition key

Platform	Synchronize	Asynchronous	Hybrid Synchronization
Tronclass	733	322	315
Line	548	181	216
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Microsoft Teams	112	10	147
Youtube	3	87	104
Facebook	12	10	76
Internet Academy	0	69	0
Other	28	104	73

Item

Attribute

- Name
- Data type
- Value



Step 1 : login AWS and find **DynamoDB** service

The screenshot displays the AWS Management Console interface. At the top, the 'aws' logo is visible on the left, and the 'Services' tab is selected. A search bar at the top right contains the text 'dynamoDB'. Below the search bar, a search results section titled 'Services' lists several services. The first service listed is 'DynamoDB', which is highlighted with a red box. A red arrow points from the 'Databases' link in the left-hand navigation menu to the 'DynamoDB' service entry. Another red arrow points from the 'Database' label in the search bar area to the 'DynamoDB' service entry. The search bar also contains the text 'Search for services, features, blogs, docs, and more'. The left-hand navigation menu includes links for 'Dashboard', 'Databases', 'Query Editor', 'Performance insights', 'Snapshots', 'Exports in Amazon S3', 'Automated backups', 'Reserved instances', 'Proxies', 'Subnet groups', and 'Parameter groups'. The search results section lists the following services: 'DynamoDB' (Managed NoSQL Database), 'Amazon DocumentDB' (Fully-managed MongoDB-compatible database service), 'CloudFront' (Global Content Delivery Network), and 'Athena' (Serverless interactive analytics service).

aws Services Q dynamoDB X

Services (5) See all 5 results ▶

Search for services, features, blogs, docs, and more

Services

DynamoDB ☆ [Alt+S]
Managed NoSQL Database

Amazon DocumentDB ☆
Fully-managed MongoDB-compatible database service

CloudFront ☆
Global Content Delivery Network

Athena ☆
Serverless interactive analytics service

Services

Database

Databases

DynamoDB



Step 2 : Select **Tables** in Amazon DynamoDB Service

The screenshot displays the Amazon DynamoDB console interface. On the left, a navigation pane lists various options: Dashboard, Tables, Items, PartiQL editor, Backups, Exports to S3, Reserved capacity, DAX, Clusters, Subnet groups, Parameter groups, and Events. The 'Tables' option is highlighted with a red box, and a red arrow points from it to another red box labeled 'Tables' at the bottom of the page. The main content area features a header with the text 'Amazon DynamoDB A fast and flexible NoSQL database service for any scale'. Below this, there are sections for 'Get started' (with a 'Create table' button), 'Pricing', and 'Documentation'. A video player titled 'What is Amazon DynamoDB?' is also visible. The footer includes 'Feedback', 'English (UK)', and copyright information for Amazon Web Services.



Step 3 : Click **Create table** to createTable

The screenshot shows the AWS DynamoDB console interface. On the left is a navigation sidebar with options like Dashboard, Tables, Items, PartiQL editor, Backups, Exports to S3, Reserved capacity, DAX, Clusters, Subnet groups, Parameter groups, and Events. The main content area is titled 'DynamoDB > Tables'. At the top of this area is a blue banner with a message about the new DynamoDB console. Below the banner, there's a section for 'Tables (0)' with a search bar and a dropdown for 'Any table tag'. A table header is visible with columns: Name, Status, Partition key, Sort key, Indexes, Read capacity mode, Write capacity mode, Table class, and Encryption. Below the header, a message states 'You have no tables in this account in this AWS Region.' Two red boxes highlight the 'Create table' button: one in the top right corner of the console and another in the center of the 'You have no tables' message. A red arrow points from the top-right button to a callout box labeled 'Create table'.

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Step 4 : Enter the table name and first column name as partition key

aws Services Search for services, features, blogs, docs, and more [Alt+S] N. Virginia

Following the previous steps in which we analyzed and implemented your technical, we have configured the new dynamodb console, making it even easier for you to manage your data and resources. Let us know what you think. You can also choose to return to the previous console from the navigation pane.

DynamoDB > Tables > Create table

Create table

Table details Info
DynamoDB is a schemaless database that requires only a table name and a primary key when you create the table.

Table name
This will be used to identify your table.
TableData
Between 3 and 255 characters, containing only letters, numbers, underscores (_), hyphens (-), and periods (.).

Partition key
The partition key is part of the table's primary key. It is a value that is used to retrieve items from your table and allocate data across hosts for scalability and availability.
platform String
1 to 255 characters and case sensitive.

Sort key - optional
You can use a sort key as the second part of a table's primary key. The sort key allows you to sort or search among all items sharing the same partition key.
Enter the sort key name String
1 to 255 characters and case sensitive.

Settings

☒ Default settings
The fastest way to create your table. You can modify these settings now or after your table has been created.

☐ Customize settings
Use these advanced features to make DynamoDB work better for your needs.

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Table name

Partition key



Step 5 : Click **Create table** to create DynamoDB Table

The screenshot shows the AWS Management Console interface for creating a new DynamoDB table. The 'Default settings' tab is selected, showing options for read/write capacity, secondary indexes, key management, and table class. The 'Create table' button is highlighted with a red box, and a red arrow points to it from a larger red box labeled 'Create table'.

Default settings

Read/write capacity [Info](#)
Using provisioned capacity mode. Read and write capacity are set to 5 units each with auto scaling enabled.

Secondary indexes [Info](#)
No secondary indexes have been created. Queries will be run by using the table's partition key and sort key only.

Key management for encryption at rest [Info](#)
Using the AWS owned key. This key is managed by DynamoDB at no extra cost.

Table class
Using DynamoDB Standard table class. The default general-purpose table class. Recommended for the vast majority of tables that store frequently accessed data, with throughput (reads and writes) as the dominant table cost.

Tags
Tags are pairs of keys and optional values, that you can assign to AWS resources. You can use tags to control access to your resources or track your AWS spending.

No tags are associated with the resource.

[Add new tag](#)
You can add 50 more tags.

[Cancel](#) [Create table](#)



Step 6 : Check table status as creating

aws Services Search for services, features, blogs, docs, and more [Alt+S] N. Virginia

DynamoDB

- Dashboard
- Tables**
- Items [New](#)
- PartiQL editor [New](#)
- Backups
- Exports to S3
- Reserved capacity

▼ DAX

- Clusters
- Subnet groups
- Parameter groups
- Events

Tell us what you think
[Return to the previous console experience](#)

The new DynamoDB console is now complete, and becomes your default experience
Following the preview phase in which we analyzed and incorporated your feedback, we have completed the new DynamoDB console, making it even easier for you to manage your data and resources. Let us know what you think. You can still choose to return to the previous console from the navigation pane.

Creating the TableData table. It will be available for use shortly.

DynamoDB > Tables

Tables (1) Info

Find tables by table name Any table tag < 1 > ⓘ

	Name	Status	Partition key	Sort key	Indexes	Read capacity mode	Write capacity mode	Table class	Encryption
	TableData	Creating	platform (String)	-	0	Provisioned with auto scalin...	Provisioned with auto scaling...	DynamoDB Sta...	Default

Status

Creating

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Step 7 : Scroll down Action and select **Create Item** when Status turns to Active

The screenshot shows the AWS Management Console interface for a DynamoDB table named 'AWSDB'. The left sidebar contains navigation links: Dashboard, Tables, Update settings, Explore items, PartiQL editor, Backups, Exports to S3, Reserved capacity, and Settings. The main content area shows the 'AWSDB' table with a 'Tables (1)' filter and a search bar. The 'Actions' menu is open, displaying options: Edit capacity, Update table class, Delete table, Create item, Create index, Create replica, Export to S3, Enable TTL, Manage tags, and Create access control policy. The 'Create item' option is highlighted with a red box. A red arrow points from this box to another red box labeled 'Create item' below the console.

Create item



Step 8 : Click the Table name, to add new attributes of Table item

aws Services Search for services, features, blogs, docs, and more [Alt+S] N. Virginia voclabs/user358066=Le-Pong

DynamoDB > Tables > 20220817 > Edit item

Create item

You can add, remove, or edit the attributes of an item. You can nest attributes inside other attributes up to 32 levels deep. [Learn more](#)

Form JSON view

Attributes Add new attribute

Attribute name	Value	Type
Platform - Partition key	Empty value	String

Cancel Create item

Empty value

Create item



Step 9 : Repeat the steps insert the items to Table

Platform	Synchronize	Asynchronous	Hybrid Synchronization
Tronclass	733	322	315
Line	548	181	216
Google Meet	291	7	226
Microsoft Teams	112	10	147
Youtube	3	87	104
Facebook	12	10	76
Internet Academy	0	69	0
Other	28	104	73



Step 10 : In this case, select **Form**, and enter Tronclass to the value of Platform

DynamoDB > Items: TableData > Edit item

Edit item

You can add, remove, or edit the attributes of an item. You can nest attributes inside other attributes up to 32 levels deep. [Learn more](#)

Attribute name	Value	Type
platform - Partition key	Tronclass	String

Form JSON view

Add new attribute ▲

- String
- Number
- Boolean
- String set
- Number set
- Binary set
- List
- Map

Add new attribute ▼

Form

Tronclass



Step 11 : Click **Add new attributes**, (data Types of this case are Number)

DynamoDB > Items: TableData > Edit item

Edit item

You can add, remove, or edit the attributes of an item. You can nest attributes inside other attributes up to 32 levels deep. [Learn more](#)

Form

JSON view

Attributes

Attribute name

Value

Type

platform - Partition key

Troneclass

String

Synchronize

733

Number

Asynchronous

322

Number

Add new attribute

String

Number

Boolean

Binary

Null

String set

Number set

Binary set

List

Map

Number

除了Platform的Partition key之外，要增加步驟9的其他欄位



Step 12 : Click **Create item** to create the first item of DynamoDB Table

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The new DynamoDB console is now complete, and becomes your default experience. Following the preview phase in which we analyzed and incorporated your feedback, we have completed the new DynamoDB console, making it even easier for you to manage your data and resources. Let us know what you think. You can still choose to return to the previous console from the navigation pane.

DynamoDB > Items: TableData > Item editor

Create item

Form JSON

Attribute name	Value	Type	
platform - Partition key	Tronclass	String	
Synchronize	773	Number	Remove
Asynchronous	322	Number	Remove
Hybrid synchronization	315	Number	Remove

Add new attribute

Cancel **Create item**

Create item

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Step 13 : The first item shown, and click **Create item**

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DynamoDB

Dashboard
Tables
Items **New**
 PartiQL editor **New**
 Backups
 Exports to S3
 Reserved capacity

▼ DAX
 Clusters
 Subnet groups
 Parameter groups
 Events

Tell us what you think
 Return to the previous console experience

The new DynamoDB console is now complete, and becomes your default experience
 Following the preview phase in which we analyzed and incorporated your feedback, we have completed the new DynamoDB console, making it even easier for you to manage your data and resources. Let us know what you think. You can still choose to return to the previous console from the navigation pane.

The item has been saved successfully.

DynamoDB > Items

Items Info

Autopreview

Tables (1)

Tag
 Any table tag
 Find tables by name

TableData

TableData
 Expand to query or scan items.

Items returned (1)

platform	Asynchr...	Hybrid s...	Synchronize
Tronclass	322	315	773

View table details

Actions Create item

Create item

platform ▾ Asynchr... ▾ Hybrid s... ▾ Synchronize
Tronclass 322 315 773

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按下 Save Change

DynamoDB > Items: TableData > Edit item

Edit item

You can add, remove, or edit the attributes of an item. You can nest attributes inside other attributes up to 32 levels deep. [Learn more](#)

Form

JSON view

Attributes

Add new attribute ▼

Attribute name	Value	Type	
platform - Partition key	Troneclass	String	
Synchronize	733	Number	Remove
Asynchronous	322	Number	Remove
Hybrid Synchronization	315	Number	Remove

Cancel

Save changes



DynamoDB > Items > TableData

Tables (1)



Any table tag ▼

Find tables by table name

< 1 > ⚙



TableData

TableData

☒ Autopreview

[View table details](#)

▶ Scan or query items

Expand to query or scan items.

✔ Completed. Read capacity units consumed: 0.5



Items returned (1)



Actions ▼

Create item

< 1 > ⚙ ⌕

<input type="checkbox"/>	platform ▼	Asynchronous ▼	Hybrid Synchronization ▼	Synchronize ▼
<input type="checkbox"/>	Troneclass	322	315	733



Step 14 : Repeat adding data using **Create item**

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DynamoDB

Dashboard
Tables
Items New
 PartiQL editor New
Backups
Exports to S3
Reserved capacity

▼ DAX
Clusters
Subnet groups
Parameter groups
Events

Tell us what you think
Return to the previous console experience

Items Info

The new DynamoDB console is now complete, and becomes your default experience. Following the preview phase in which we analyzed and incorporated your feedback, we have completed the new DynamoDB console, making it even easier for you to manage your data and resources. Let us know what you think. You can still choose to return to the previous console from the navigation pane.

DynamoDB > Items

Tables (1)

Tag
Any table tag
Find tables by name

TableData

TableData
Expand to query or scan items.

View table details

Items returned (8)

Create item

	platform	Asynchronous	Hybrid synchronization	Synchronize
<input type="checkbox"/>	Facebook	10	76	12
<input type="checkbox"/>	Google Meet	7	226	291
<input type="checkbox"/>	Internet Academy	69	0	0
<input type="checkbox"/>	Line	181	216	548
<input type="checkbox"/>	Microsoft Teams	10	147	112
<input type="checkbox"/>	Other	104	73	28
<input type="checkbox"/>	Tronclass	322	315	773
<input type="checkbox"/>	Youtube	87	104	3

Create item

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Step 15 : Click **Explore table items** to verify the table

The screenshot displays the AWS Management Console interface for the AWSDB table. The left sidebar shows the navigation menu with options like Dashboard, Tables, Update settings, Explore items, PartiQL editor, Backups, Exports to S3, Reserved capacity, and Settings. The main content area shows the 'AWSDB' table overview. The 'Explore table items' button is highlighted with a red box and a red arrow pointing to it. The table details include:

General information			
Partition key platform (String)	Sort key -	Capacity mode Provisioned	Table status ✓ Active ✓ No active alarms
Additional info			
Table class DynamoDB Standard	Indexes 0 globals, 0 locals	DynamoDB stream ✗ Disabled	Point-in-time recovery (PITR) ✗ Disabled



Notations

Partition key

Platform	Synchronize	Asynchronous	Hybrid Synchronization
Tronclass	733	322	315
Line	548	181	216
Google Meet	291	7	226
Microsoft Teams	112	10	147
Youtube	3	87	104
Facebook	12	10	76
Internet Academy	0	69	0
Other	28	104	73

Item

Attribute

- Name
- Data type
- Value



Attribute value discussion



Important !
Not each attribute has its value



Step 1 : Table Shown

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DynamoDB

Dashboard
Tables
Items New
 PartiQL editor New
 Backups
 Exports to S3
 Reserved capacity

▼ DAX
 Clusters
 Subnet groups
 Parameter groups
 Events

Tell us what you think
Return to the previous console experience

Items Info

DynamoDB > Items

☐ **Internet Academy** 69 0 0

Tables (1)

Tag
Any table tag
Find tables by name

TableData

TableData
Expand to query or scan items.

Items returned (8)

<input type="checkbox"/>	platform	Asynchronous	Hybrid synchronization	Synchronize
<input type="checkbox"/>	Facebook	10	76	12
<input type="checkbox"/>	Google Meet	7	226	201
<input type="checkbox"/>	Internet Academy	69	0	0
<input type="checkbox"/>	Line	181	216	548
<input type="checkbox"/>	Microsoft Teams	10	147	112
<input type="checkbox"/>	Other	104	73	28
<input type="checkbox"/>	Tronclass	322	315	773
<input type="checkbox"/>	Youtube	87	104	3

View table details

Actions Create item

< 1 >

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Step 2 : Select Internet Academy, scroll down Action, click Delete items

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DynamoDB

Dashboard
Tables
Items New
 PartiQL editor New
Backups
Exports to S3
Reserved capacity

▼ DAX
Clusters
Subnet groups
Parameter groups
Events

Tell us what you think
Return to the previous console experience

The new DynamoDB console is now complete, and becomes your default experience
Following the preview phase in which we analyzed and incorporated your feedback, we have completed the new DynamoDB console, making it even easier for you to manage your data and resources. Let us know what you think. You still choose to return to the previous console from the navigation pane.

DynamoDB > Items

Items Info

Tables (1)

Tag
Any table tag

TableData

TableData
Expand to query or scan items.

Items returned (8)

	platform	Asynchronous	Hybrid synchronization	Synchronize
<input type="checkbox"/>	Facebook	10	76	12
<input type="checkbox"/>	Google Meet	7	335	381
<input checked="" type="checkbox"/>	Internet Academy	69	0	0
<input type="checkbox"/>	Line	181	216	548
<input type="checkbox"/>	Microsoft Teams	10	147	112
<input type="checkbox"/>	Other	104	73	28
<input type="checkbox"/>	Zoom	323	315	773

Actions ▲

Create item

Edit

Duplicate

Delete items

Download selected items to CSV

Download results to CSV

Internet Academy platform 69 0 0

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Step 3 : Click **Delete**, and delete the item of Internet Academy

Delete item

×

Delete 1 item from the **TableData** table? This action cannot be reversed.

Cancel

Delete

Delete

Delete



Step 4 : Create new item of Internet Academy and click **Create item**

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The new DynamoDB console is now complete, and becomes your default experience. Following the preview phase in which we analyzed and incorporated your feedback, we have completed the new DynamoDB console, making it even easier for you to manage your data and resources. Let us know what you think. You can still choose to return to the previous console from the navigation pane.

DynamoDB > Items: TableData > Item editor

Create item

Form JSON

Attribute name	Value	Type
platform - Partition key	Internet Academy	String
Asynchronous	69	Number

Add new attribute

Cancel Create Item

Create item

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Step 5 : There are two attributes of Internet Academy empty

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DynamoDB

- Dashboard
- Tables
- Items** New
- PartiQL editor New
- Backups
- Exports to S3
- Reserved capacity

▼ DAX

- Clusters
- Subnet groups
- Parameter groups
- Events

Tell us what you think
Return to the previous console experience

Items Info

TableData

Items returned (8)

	platform	Asynchronous	Hybrid synchronization	Synchronize
<input type="checkbox"/>	Facebook	10	76	12
<input type="checkbox"/>	Google Meet	7	226	291
<input type="checkbox"/>	Internet Academy	69		
<input type="checkbox"/>	Line	181	216	548
<input type="checkbox"/>	Microsoft Teams	10	147	112
<input type="checkbox"/>	Other	104	73	28
<input type="checkbox"/>	Zoom	322	415	773

☐ Internet Academy 69

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Description of Non-Relational Database

Platform	Synchronize	Asynchronous	Hybrid Synchronization
Tronclass	733	322	315
Line	548	181	216
Google Meet	291	7	226
Microsoft Teams	112	10	147
Youtube	3	87	104
Facebook	YES	10	76
Internet Academy		69	
Other	28	104	73



Query data using SQL - using **PartiQL** editor



Query data using SQL - using **PartiQL** editor



Remember : Table name and Partition key

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Following the previous phase in which we analyzed and implemented your technical, we have completed the new dynamodb console, making it even easier for you to manage your data and resources. Let us know what you think. You can also choose to return to the previous console from the navigation pane.

DynamoDB > Tables > Create table

Create table

Table details Info
DynamoDB is a schemaless database that requires only a table name and a primary key when you create the table.

Table name
This will be used to identify your table.
TableData
Between 3 and 255 characters, containing only letters, numbers, underscores (_), hyphens (-), and periods (.).

Partition key
The partition key is part of the table's primary key. It is a value that is used to retrieve items from your table and allocate data across hosts for scalability and availability.
platform String
1 to 255 characters and case sensitive.

Sort key - optional
You can use a sort key as the second part of a table's primary key. The sort key allows you to sort or search among all items sharing the same partition key.
Enter the sort key name String
1 to 255 characters and case sensitive.

Settings

☒ **Default settings**
The fastest way to create your table. You can modify these settings now or after your table has been created.

☐ **Customize settings**
Use these advanced features to make DynamoDB work better for your needs.

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Table name

Partition key



Step 1 : Enter the DynamoDB Dashboard and Click **PartiQL editor** to use SQL language to query Table

The screenshot shows the AWS DynamoDB console interface. In the left-hand navigation pane, the 'PartiQL editor' link is highlighted with a red box. A red arrow points from this link to a callout box at the bottom left that contains the text 'PartiQL editor' followed by a 'New' button and a series of dots. The main console area displays a notification about the new DynamoDB console, a breadcrumb trail 'DynamoDB > Items', and a section for 'TableData' showing a list of items returned from a query.

	platform	Asynchronous	Hybrid synchronization	Synchronize
<input type="checkbox"/>	Facebook	10	76	12
<input type="checkbox"/>	Google Meet	7	226	291
<input type="checkbox"/>	Internet Academy	69	0	0
<input type="checkbox"/>	Line	181	216	548
<input type="checkbox"/>	Microsoft Teams	10	147	112
<input type="checkbox"/>	Other	104	73	28
<input type="checkbox"/>	Tronclass	322	315	773
<input type="checkbox"/>	Youtube	87	104	3



Step 2 : Try to enter **SELECT "Synchronize"** **FROM "TableData"** to query table

The screenshot displays the AWS DynamoDB PartiQL editor interface. The main area shows the PartiQL editor with the query `1 SELECT "Synchronize" FROM TableData;` entered. A red box highlights this query, and a red arrow points from it to a larger red box containing the same query. Below the query editor, there are 'Run' and 'Clear' buttons. A red box highlights the 'Run' button, and a red arrow points from it to a larger red box containing the word 'Run'. The bottom of the interface shows 'Table view' and 'JSON view' tabs, and a message 'No results Run a query to get started'.



Step 3 : All data shown

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DynamoDB

- Dashboard
- Tables
- Items [New](#)
- [PartiQL editor](#) [New](#)
- Backups
- Exports to S3
- Reserved capacity

▼ DAX

- Clusters
- Subnet groups
- Parameter groups
- Events

Tell us what you think
Return to the previous console experience

Run **Clear**

Table view **JSON view**

Completed
Started on 2021/12/21 下午1:23:19
Elapsed time 305ms

Items returned (8)

Find items

Synchronize

0
773
3
28
112
291
12
548

Synchronize

0
773
3
28
112
291
12
548

Download results to CSV

< 1 > ⚙

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