

Grup 1 - Lab 275

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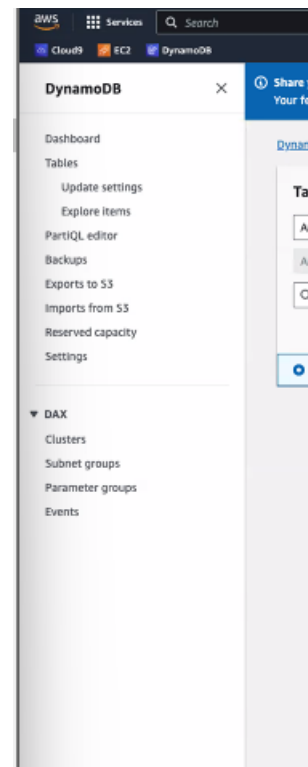
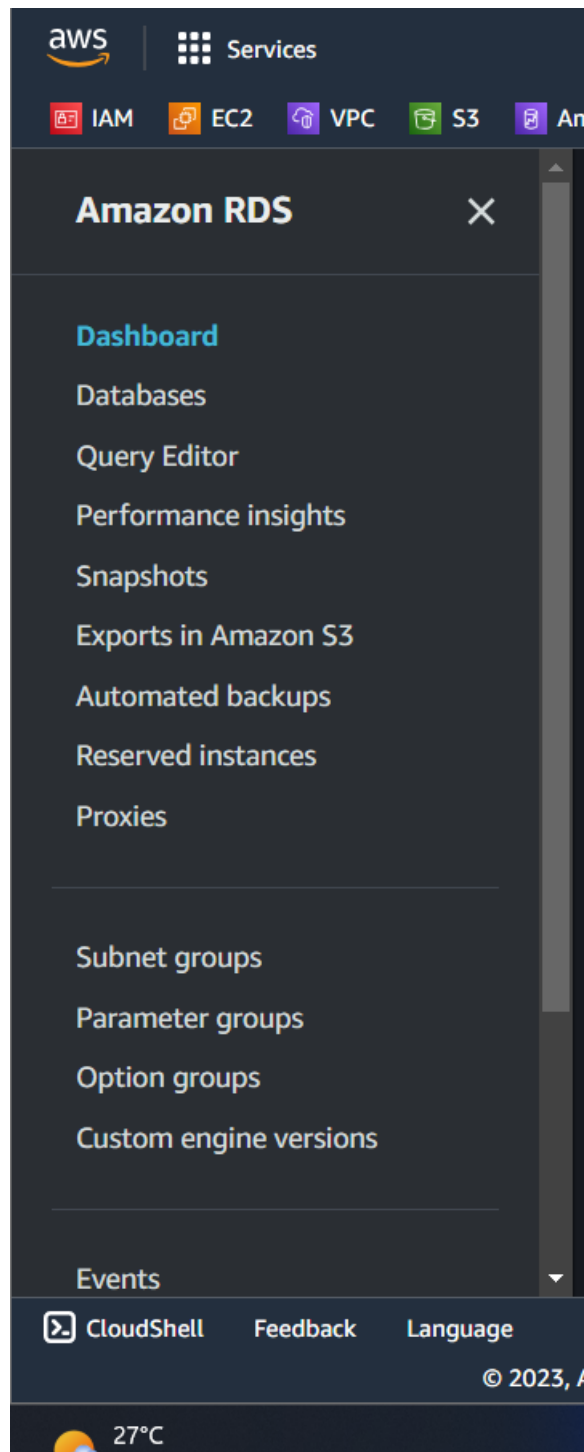
Lab farkları

- Amazon DynamoDB: İlişkişel olmayan (NoSQL) veritabanı olduđu için veriler düz, hiyerarşik veya belirli bir şema olmadan saklanabilir. JSON veya benzeri formatlarda saklanabilir.
- Amazon RDS: İlişkişel veritabanı olduğundan, veri düzenli tablolar ve sütunlar şeklinde saklanır ve bir önceden tanımlanmış şemaya uyar.
- Amazon DynamoDB: NoSQL tabanlı bir veritabanı hizmetidir. İlişkişel veri tabanlarından farklı olarak verilerin belirli bir şema gerektirmediğı ve ölçeklendirilebilir olduđu bir yapıya sahiptir.
- Amazon RDS: İlişkişel veritabanları için yönetilen bir hizmet sunar. MySQL, PostgreSQL, Oracle, SQL Server gibi ilişkişel veritabanı motorlarını destekler.
- Amazon DynamoDB: Otomatik olarak ölçeklenir. Kapasite ihtiyacınıza göre otomatik olarak artırabilir veya azaltabilir.
- Amazon RDS: Ölçeklenebilirliğı daha fazla el ile yapılandırmaya dayalıdır. İhtiyaçlar arttıkça, RDS ölçeklendirilmeli veya yük dengelemesi yapılmalıdır.

Lab 275 de yaptığımız çalışma ile bulduğumuz farklılıklar.

- Dynamodb temel olarak NoSQL bir database servisi olup partition key ve sort key temelinde işlemektedir. Partition Key ve Sort Key RDS'te bulunmayan bir özelliktir. Bunun için öncelikle Partition Key ve Sort Key'in data bilgisinin hangi tipte olduğunu seçiyoruz (str, int vs.).
- DynamoDB key-value şeklinde veri tutabildiğimiz bir NoSQL database servisi.
- Burada table oluşturduktan sonra itemleri key-value şeklinde string dataları girerek kaydetmiş oluyoruz. Lab - 275'te bunu deneyimledik.
- Daha sonra attributelarda değişiklik yaparak kaydederek farklı veri tiplerinin key-value şeklinde DynamoDB'de tutulabildiğini gözlemlemiş olduk.
- RDS'te database'e bağlanarak yani ya terminal üzerinden ya da database'e entegre bir browser üzerinden veri girişi yapabiliyorken DynamoDB'de direkt olarak konsol üzerinden veri girişi yapabiliyoruz.
- RDS servisinde bir database serverı ayağı kalkıyor ve biz SQL database işlemlerimizi bu server üzerinden gerçekleştiriyorken DynamoDB serverless bir database servisi olduğuna için ayakta herhangi bir database serverı gözlemleyemiyoruz.

Bulduğumuz farklılıkların resimleri;



aws Services [Option+S] Cloud9 EC2 DynamoDB

DynamoDB Dashboard Tables Update settings Explore items PartiQL editor Backups Exports to S3 Imports from S3 Reserved capacity Settings

DAX Clusters Subnet groups Parameter groups Events

Tables (1) Any tag key Any tag value Find tables by table name Music

Music

Autopreview View table details

▼ Scan or query items

☐ Scan ☒ Query

Select a table or index: Table - Music Select attribute projection: All attributes

Artist (Partition key): Psy

Song (Sort key): Equal to Gangnam Style ☐ Sort descending

Filters

Run Reset

Completed. Read capacity units consumed: 0.5

Items returned (0) Actions Create item

The query did not return any results.

aws Services [Option+S] Cloud9 EC2 DynamoDB

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☒ Scan ☐ Query

Select a table or index: Table - Music Select attribute projection: All attributes

Filters

Attribute name	Type	Condition	Value	
Year	Number	Equal to	1971	Remove

Add filter

Run Reset

Completed. Read capacity units consumed: 0.5

Items returned (1) Actions Create item

Artist (String)	Song (String)	Album	Genre	Year
John Lennon	Imagine	Imagine	Soft rock	1971

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aws

Services

Search

[Option+S]

Oregon

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Cloud9

EC2

DynamoDB

Share your feedback on Amazon DynamoDB

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Share feedback

DynamoDB

Explore Items: Music

Create Item

Create item

Form

JSON view

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](#)

Attributes

Add new attribute

Attribute name	Value	Type	
Artist - Partition key	John Lennon	String	
Song - Sort key	Imagine	String	
Album	Imagine	String	Remove
Year	1971	Number	Remove
Genre	Soft rock	String	Remove

Cancel

Create Item

us-west-2.console.aws.amazon.com/dynamodbv2/home?region=us-west-2#edit-item?itemMode=1&route=ROUTE_ITEM_EXPLORER&table=Music

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Services

Search

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Attributes

Add new attribute

Attribute name	Value	Type	
Artist - Partition key	Psy	String	
Song - Sort key	Gangnam Style	String	
Album	Psy 6 (Six Rules), Part 1	String	Remove
Year	2011	Number	Remove
LengthSeconds	219	Number	Remove

Cancel

Create Item

aws

Services

Search

[Option+5]

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DynamoDB

Dashboard

Tables

Update settings

Explore items

PartiQL editor

Backups

Exports to S3

Imports from S3

Reserved capacity

Settings

DAX

Clusters

Subnet groups

Parameter groups

Events

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Share feedback

The item has been saved successfully.

DynamoDB > Explore items > Music

Tables (1)

Any tag key

Any tag value

Find tables by table name

Music

Music

Autopreview

View table details

Scan or query items

Expand to query or scan items.

Completed. Read capacity units consumed: 0.5

Items returned (3)

Actions

Create Item

	Artist (String)	Song (String)	Album	Genre	LengthSeconds	Year	Year
<input type="checkbox"/>	Psy.	Gangnam Style	Psy 6 (Six R...		219		2011
<input type="checkbox"/>	John Lennon	Imagine	Imagine	Soft rock		1971	
<input type="checkbox"/>	Pink Floyd	Money	The Dark Si...			1973	

us-west-2.console.aws.amazon.com/dynamodbv2/home?region=us-west-2#item-explorer?table=Music

aws

Services

Search

[Option+5]

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DynamoDB

Dashboard

Tables

Update settings

Explore items

PartiQL editor

Backups

Exports to S3

Imports from S3

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Settings

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Share feedback

The item has been saved successfully.

DynamoDB > Explore items > Music

Tables (1)

Any tag key

Any tag value

Find tables by table name

Music

Music

Autopreview

View table details

Scan or query items

Expand to query or scan items.

Completed. Read capacity units consumed: 0.5

Items returned (1/3)

Actions

Create Item

	Artist (String)	Song (String)	Album	Genre	LengthSeconds	Year
<input checked="" type="checkbox"/>	Psy.	Gangnam Style	Psy 6 (Six R...		219	
<input type="checkbox"/>	John Lennon	Imagine	Imagine	Soft rock		
<input type="checkbox"/>	Pink Floyd	Money	The Dark Si...			

Edit Number

219

Enter any number up to 38 digits. Leading and trailing zeros are ignored.

Cancel

Save