

## Assignment – 6 (Red Shift – optional)

The screenshot shows the AWS Redshift console interface. At the top, there's a navigation bar with the AWS logo, 'Services' dropdown, a search bar, and user information (rajeev, Singapore, Support). On the left, a sidebar contains icons for DATASHARES, CONFIG, MARKETPLACE, ADVISOR, ALARMS, EVENTS, and WHAT'S NEW. The main content area is titled 'Query data' and includes a 'Cluster' dropdown menu with 'Cluster identifier' selected. Below this are buttons for 'Copy JDBC URL' and 'Copy ODBC URL'. To the right, there's a 'Driver' dropdown menu with 'JDBC 4.2 without AWS SDK (.jar)' selected and a 'Download driver' button. Below this, there's a 'Clusters (1)' section with a search bar and a table of clusters. The table has columns for Cluster, Status, Storage capacity, CPU utilization, Snapshots, and Notifications. One cluster is listed: 'redshift-cluster-1' with status 'Available', storage capacity 'dc2.large | 1 node | 160 GB', CPU utilization '< 1%', and '1 snapshot'.

Query data

using JDBC or ODBC drivers.

Cluster

Cluster identifier

Copy JDBC URL

Copy ODBC URL

Driver

JDBC 4.2 without AWS SDK (.jar)

Download driver

Clusters (1) Info

Filter clusters by property or value

Cluster	Status	Storage capacity us...	CPU utilization	Snapshots	Notificati...	Tags
redshift-cluster-1 dc2.large   1 node   160 GB	Available	< 1%	4%	1 snapshot		

The screenshot shows the 'Cluster permissions' section of the AWS Redshift console. It includes a 'Manage IAM roles' button and a table of associated IAM roles. The table has columns for Associated IAM roles, Status, and Amazon Resource Name (ARN). One role is listed: 'AWSServiceRoleForRedshift' with status 'in-sync' and ARN 'arn:aws:iam::452810036291:role/aws-service-role/redshift.amazonaws.com/AWSServiceRoleForRedshift'. Below this, there's a 'Granted accounts (0)' section with a search bar and a table of granted accounts. The table has columns for Account ID, VPC, and Endpoints created. A message states 'No granted accounts' and 'You haven't granted access to this cluster.' with a 'Grant access' button.

Cluster permissions (1)

Your cluster needs permissions to access other AWS services on your behalf. For the required permissions, add IAM roles with the principal "redshift.amazonaws.com". You can associate up to 10 IAM roles with this cluster. [Learn more](#)

Manage IAM roles

Associated IAM roles	Status	Amazon Resource Name (ARN)
<a href="#">AWSServiceRoleForRedshift</a>	in-sync	arn:aws:iam::452810036291:role/aws-service-role/redshift.amazonaws.com/AWSServiceRoleForRedshift

Granted accounts (0)

VPCs in other accounts that are allowed to access this cluster. [Learn more](#)

Find accounts or VPCs

Account ID	VPC	Endpoints created
No granted accounts		

You haven't granted access to this cluster.

Grant access

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Amazon Redshift > Query editor

Editor Query history Saved queries Scheduled queries

Resources

Select database  
To view schemas, select a database.  
[Learn more](#)  
dev

Select schema  
To view tables, select a schema.  
public

Filter tables

category

Status Connected database dev user awsuser [Change connection](#)

Query 1

```
1 create user rajeev password 'aA123456'
```

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Amazon S3 > Create bucket

## Create bucket

Buckets are containers for data stored in S3. [Learn more](#)

**General configuration**

Bucket name  
rajeev-tickitdb  
Bucket name must be unique and must not contain spaces or uppercase letters. [See rules for bucket naming](#)

AWS Region  
Asia Pacific (Singapore) ap-southeast-1

Copy settings from existing bucket - *optional*  
Only the bucket settings in the following configuration are copied.  
[Choose bucket](#)

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Amazon S3

**Buckets**

Access Points  
Object Lambda Access Points  
Batch Operations  
Access analyzer for S3

Block Public Access settings for this account

**Storage Lens**

Dashboards  
AWS Organizations settings

Feature spotlight 3

Amazon S3

**Account snapshot**  
Storage lens provides visibility into storage usage and activity trends. [Learn more](#) [View Storage Lens dashboard](#)

**Buckets (2)** [Refresh](#) [Copy ARN](#) [Empty](#) [Delete](#) [Create bucket](#)

Buckets are containers for data stored in S3. [Learn more](#)

Find buckets by name

	Name	AWS Region	Access	Creation date
<input type="radio"/>	elasticbeanstalk-ap-southeast-1-452810036291	Asia Pacific (Singapore) ap-southeast-1	Objects can be public	May 31, 2021, 10:35:30 (UTC+08:00)
<input checked="" type="radio"/>	rajeev-tickitdb	Asia Pacific (Singapore) ap-southeast-1	Objects can be public	June 4, 2021, 17:40:07 (UTC+08:00)

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Upload succeeded

View details below.

Upload: status

Close

The information below will no longer be available after you navigate away from this page.

Summary

Destination

s3://rajeev-tickitdb

Succeeded

8 files, 27.9 MB (100.00%)

Failed

0 files, 0 B (0%)

Files and folders

Configuration

Files and folders (8 Total, 27.9 MB)

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Upload succeeded

View details below.

Files and folders (8 Total, 27.9 MB)

Find by name

< 1 >

Name	Folder	Type	Size	Status	Error
<a href="#">allevents_pipe.txt</a>	tickitdb/	text/plain	435.4 KB	✓ Succeeded	-
<a href="#">allusers_pipe.txt</a>	tickitdb/	text/plain	5.6 MB	✓ Succeeded	-
<a href="#">category_pipe.txt</a>	tickitdb/	text/plain	465.0 B	✓ Succeeded	-
<a href="#">date2008_pipe.txt</a>	tickitdb/	text/plain	14.2 KB	✓ Succeeded	-
<a href="#">listings_pipe.txt</a>	tickitdb/	text/plain	11.0 MB	✓ Succeeded	-
<a href="#">sales_tab.txt</a>	tickitdb/	text/plain	10.7 MB	✓ Succeeded	-
<a href="#">venue1.txt</a>	tickitdb/	text/plain	535.0 B	✓ Succeeded	-
<a href="#">venue_pipe.txt</a>	tickitdb/	text/plain	7.8 KB	✓ Succeeded	-

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Amazon S3

Buckets

Access Points

Object Lambda Access Points

Batch Operations

Access analyzer for S3

Block Public Access settings for this account

Storage Lens

Dashboards

AWS Organizations settings

Feature spotlight

Objects (8)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Copy S3 URI

Copy URL

Download

Open

Delete

Actions

Create folder

Upload

Find objects by prefix

< 1 >

	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	<a href="#">allusers_pipe.txt</a>	txt	June 4, 2021, 17:41:40 (UTC+08:00)	5.6 MB	Standard
<input type="checkbox"/>	<a href="#">category_pipe.txt</a>	txt	June 4, 2021, 17:41:40 (UTC+08:00)	465.0 B	Standard
<input type="checkbox"/>	<a href="#">date2008_pipe.txt</a>	txt	June 4, 2021, 17:41:40 (UTC+08:00)	14.2 KB	Standard
<input type="checkbox"/>	<a href="#">listings_pipe.txt</a>	txt	June 4, 2021, 17:41:41 (UTC+08:00)	11.0 MB	Standard
<input type="checkbox"/>	<a href="#">sales_tab.txt</a>	txt	June 4, 2021, 17:41:42 (UTC+08:00)	10.7 MB	Standard
<input type="checkbox"/>	<a href="#">venue_pipe.txt</a>	txt	June 4, 2021, 17:41:42 (UTC+08:00)	7.8 KB	Standard
<input type="checkbox"/>	<a href="#">venue1.txt</a>	txt	June 4, 2021, 17:41:42 (UTC+08:00)	535.0 B	Standard

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Amazon Redshift Query editor

Editor Query history Saved queries Scheduled queries

Resources

Select database  
To view schemas, select a database.  
rajeev\_ticket

Select schema  
To view tables, select a schema.  
public

Filter tables

No resources

Status Connected database rajeev\_ticket user rajeev Change connection

Query 1

```
1 create user rajeev password 'aA123456'
```

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pg\_database

pg\_catalog.pg\_database

Show schema Preview data

Search rows

datname	datdba	encoding	datistemplate	dataallowconn	datlastsysoid	datv
rajeev_ticket	100	6	false	true	101568	904
dev	1	6	false	true	101568	0
padb_harvest	1	6	false	true	101568	0
template1	1	6	true	true	101568	904
template0	1	6	true	false	101568	904

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Configurations

Workload management

Subnet groups

HSM

Manage tags

users

```
1 copy users from 's3://rajeev-ticketdb/ticketdb/allusers_pipe.txt'
2 credentials 'aws_iam_role=arn:aws:iam::452810036291:role/myRedshiftRoleReadWrite'
3 delimiter '|' region 'ap-southeast-1';
```

Run Save Schedule Clear

Send feedback

Query results Table details

Query 706

Execution Data Visualize

Completed, started on June 05, 2021 at 11:08:32  
ELAPSED TIME: 00 m 08 s

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Query 4 X Query 1 X Query 2 X +

Select database  
To view schemas, select a database.  
rajeev\_tickit

Select schema  
To view tables, select a schema.  
public

Filter tables

users venue venueid venue name venue city venue state venue seats

```
1 copy venue from 's3://rajeev-tickitdb/tickitdb/venue_pipe.txt'
2 credentials 'aws_iam_role=arn:aws:iam::452810036291:role/myRedshiftRoleReadWrite'
3 delimiter '|' region 'ap-southeast-1';
```

Run Save Schedule Clear Send feedback

Query results Table details

Query 887 Execution Data Visualize

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QUERIES EDITOR

Select database  
To view schemas, select a database.  
rajeev\_tickit

Select schema  
To view tables, select a schema.  
public

Filter tables

category date event listing sales users venue

```
1 copy sales from 's3://rajeev-tickitdb/tickitdb/sales_tab.txt'
2 credentials 'aws_iam_role=arn:aws:iam::452810036291:role/myRedshiftRoleReadWrite'
3 delimiter '\t' timeformat 'MM/DD/YYYY HH:MI:SS' region 'ap-southeast-1';
4
```

Run Save Schedule Clear Send feedback

Query results Table details

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Learn more rajeev\_tickit

Select schema  
To view tables, select a schema.  
public

Filter tables

category date event listing sales users venue

```
1 SELECT * FROM pg_table_def WHERE tablename = 'sales';
```

Run Save Schedule Clear Send feedback

Query results Table details

Query

Completed, started on June 05, 2021 at 21:39:03  
ELAPSED TIME: 00 m 02 s

Execution Data Visualize

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Select schema

To view tables, select a schema.

public

Filter tables

1

category

date

event

listing

sales

users

venue

1 SELECT firstname, lastname, total\_quantity FROM (SELECT buyerid, sum(qtyrsold) total\_quantity FROM sales GROUP BY buyerid ORDER BY total\_quantity desc limit 10) Q, users WHERE Q.buyerid = userid ORDER BY Q.total\_quantity desc;

Run Save Schedule Clear

Send feedback

Query results Table details

Query 10563

Execution Data Visualize

Completed, started on June 05, 2021 at 21:40:42

ELAPSED TIME: 00 m 07 s

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Select schema

To view tables, select a schema.

public

Filter tables

1

category

date

event

listing

sales

users

venue

1 SELECT eventname, total\_price FROM (SELECT eventid, total\_price, ntile(1000) over(order by total\_price desc) as percentile FROM (SELECT eventid, sum(pricepaid) total\_price FROM sales GROUP BY eventid) Q, event E WHERE Q.eventid = E.eventid AND percentile = 1 ORDER BY total\_price desc;

Run Save Schedule Clear

Send feedback

Query results Table details

Query 10587

Execution Data Visualize

Completed, started on June 05, 2021 at 21:41:32

ELAPSED TIME: 00 m 04 s