

## (RED SHIFT)

### RED SHIFT CONFIGURE

#### Prerequisites software

## Prerequisites

### Install SQL Drivers & Tools



Install SQL Workbench/J



Install JDBC Driver



Make sure you have Java Runtime Enabled on your OS

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301 votes

## (RED SHIFT)

### Search



amazon redshift



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About 42,20,000 results (0.42 seconds)

#### Amazon Redshift | 2 Month Free Trial

[aws.amazon.com/Data-Warehouse/Redshift/](https://aws.amazon.com/Data-Warehouse/Redshift/)

Get 10x the Data warehouse performance at 1/10th the cost. Extend to data lake. Result Caching. Secure. Petabyte scale. Deploy in Minutes. Services: Automated Backups, Fast Restores, Encryption, Audit and Compliance.

#### What Is Amazon Redshift? - Amazon Redshift - AWS Documentation

<https://docs.aws.amazon.com/redshift/latest/mgmt/welcome.html>

Welcome to the Amazon Redshift Cluster Management Guide. Amazon Redshift is a fully managed, petabyte-scale data warehouse service in the cloud. ... The first step to create a data warehouse is to launch a set of nodes, called an Amazon Redshift cluster.

### Click to website

#### Amazon Redshift

Getting Started Guide (API Version 2012-12-01)

Documentation - This Guide

Search

##### Getting Started

☐ Step 1: Set Up Prerequisites

☐ Step 2: Create an IAM Role

☐ Step 3: Launch a Cluster

☐ Step 4: Authorize Cluster Access

You must install any third-party database tools that you want to use with your clusters; Amazon Redshift does not provide or install any third-party tools or libraries.

#### To Install SQL Workbench/J on Your Client Computer

1. Review the [SQL Workbench/J software license](#).

2. Go to the [SQL Workbench/J website](#) and download the appropriate package for your operating system.

3. Go to the [installing and starting SQL Workbench/J page](#) and install SQL Workbench/J.

##### Important

Note the [Linux system version prerequisites](#) for SQL Workbench/J and [server](#).

On this page:

[Sign Up for AWS](#)

[Install SQL Client Drivers and Tools](#)

[Determine Firewall Rules](#)

### Select version

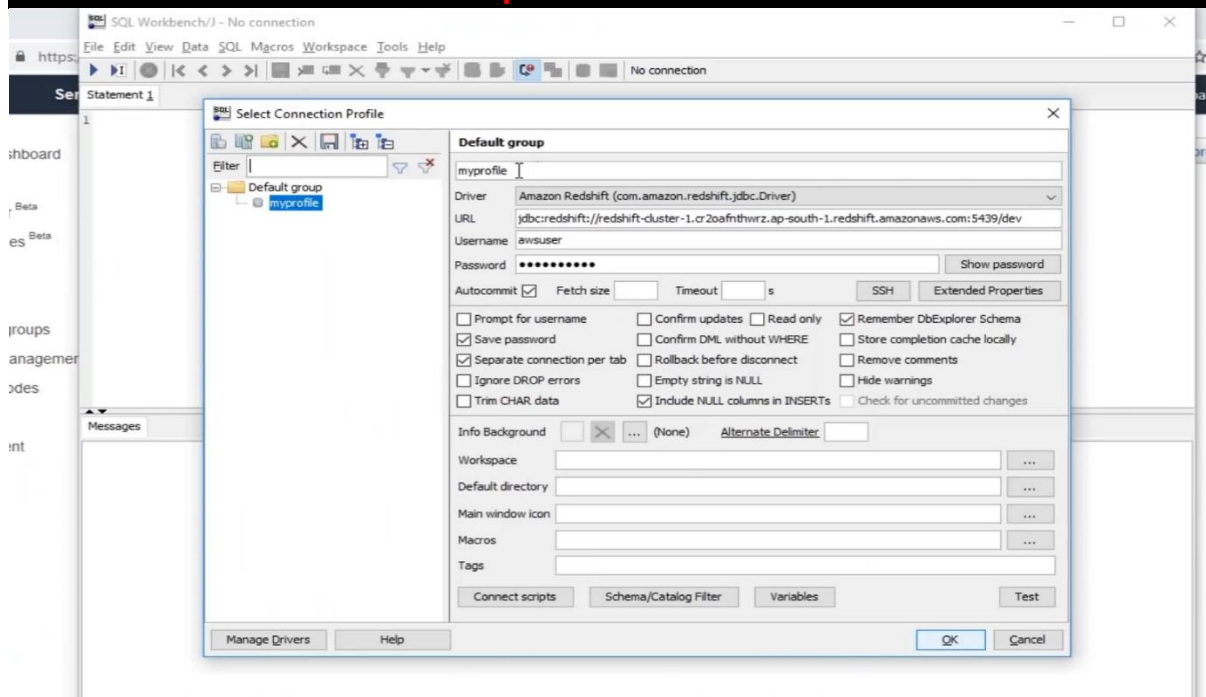
SQL Workbench/J is a free, DBMS-independent, cross-platform SQL query tool. It is written in Java and should run on any operating system that provides a Java Runtime Environment.

Its main focus is on running SQL scripts (either interactively or as a batch) and export/import features. Graphical query building or more advanced DBA tasks are not the focus and are not planned.

Current stable version: [Build 124 \(2018-08-20\)](#)

Features:

### Open workbench



## (RED SHIFT)

### Select JDBC

you are using that version, otherwise, this client application will not run.

4. Go to **Configure a JDBC Connection** and download an Amazon Redshift JDBC driver to enable SQL Workbench/J to connect to your cluster.

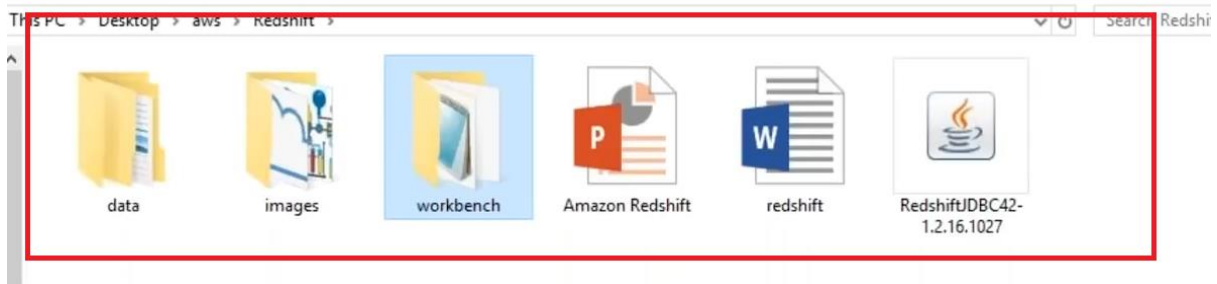
For more information about using the Amazon Redshift JDBC or ODBC drivers, see **Configuring Connections in Amazon Redshift**.

### Download driver

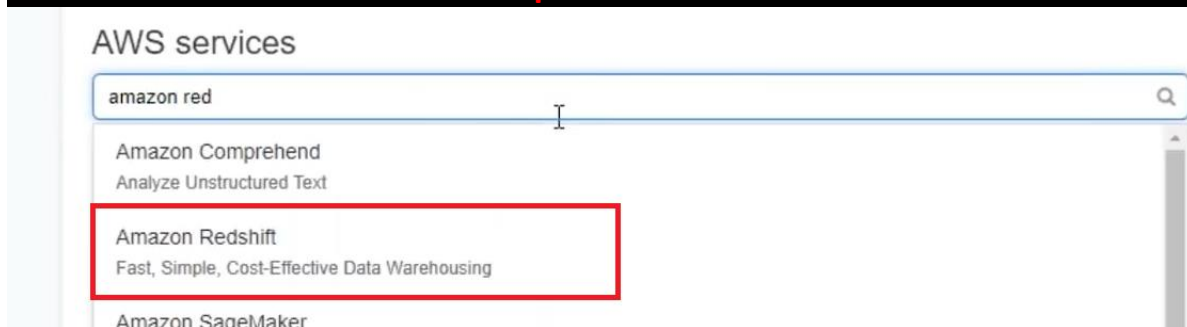
specific class name listed with the driver in the list following.

- JDBC 4.2-compatible driver: <https://s3.amazonaws.com/redshift-downloads/drivers/jdbc/1.2.16.1027/RedshiftJDBC42-1.2.16.1027.jar>.  
The class name for this driver is `1.2.16.1027/RedshiftJDBC41-1.2.16.1027.jar`  
`com.amazon.redshift.jdbc42.Driver`.
- JDBC 4.1-compatible driver: <https://s3.amazonaws.com/redshift-downloads/drivers/jdbc/1.2.16.1027/1.2.16.1027/RedshiftJDBC41-1.2.16.1027.jar>

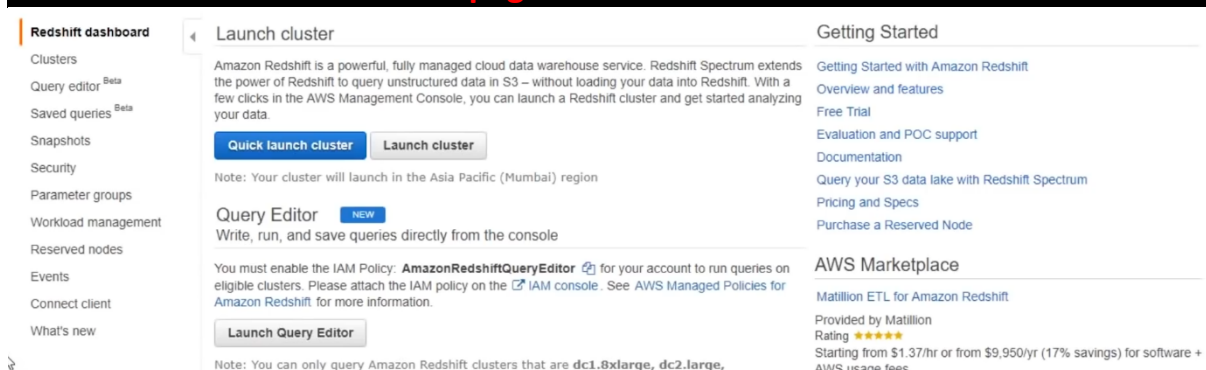
### All download



### Open service



### Console page & click launch cluster



## (RED SHIFT)

### details

My Webinars x Redshift - AWS Co x Java Runtime Envi x What Is Amazon P x Step 1: Set Up Pre x Configure a JDBC x SQL Workbench/ x + -

https://ap-south-1.console.aws.amazon.com/redshift/home?region=ap-south-1#launch-cluster

aws Services Resource Groups Deepthi Mumbai Support

Redshift dashboard  
Clusters  
Query editor <sup>Beta</sup>  
Saved queries <sup>Beta</sup>  
Snapshots  
Security  
Parameter groups  
Workload management  
Reserved nodes  
Events  
Connect client  
What's new

### Launch your Amazon Redshift cluster - Advanced settings | [Switch to quick launch](#)

CLUSTER DETAILS NODE CONFIGURATION ADDITIONAL CONFIGURATION REVIEW

Provide the details of your cluster. Fields marked with \* are required.

Cluster identifier*	<input type="text" value="mycluster"/>	This is the unique key that identifies a cluster. This parameter is stored as a lowercase string. (e.g. my-dw-instance)
Database name	<input type="text" value="dat1"/>	Optional. A default database named dev is created for the cluster. Optionally, specify a custom database name (e.g. mydb) to create an additional database.
Database port*	<input type="text" value="5439"/>	Port number on which the database accepts connections.
Master user name*	<input type="text" value="awsuser"/>	Name of master user for your cluster. (e.g. awsuser)
Master user password*	<input type="password" value="....."/>	Password must contain 8 to 64 printable ASCII characters excluding: /, ", ', \, and @. It must contain 1 uppercase letter, 1 lowercase letter, and 1 number.
Confirm password*	<input type="password" value="....."/>	Confirm master user password

Cancel [Continue](#)

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### Node configuration

My Webinars x Redshift - AWS Co x Java Runtime Envi x What Is Amazon P x Step 1: Set Up Pre x Configure a JDBC x SQL Workbench/ x + -

https://ap-south-1.console.aws.amazon.com/redshift/home?region=ap-south-1#launch-cluster

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Redshift dashboard  
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What's new

### Choose a number of nodes and node type below. Number of Compute Nodes is required for multi-node clusters.

CLUSTER DETAILS **NODE CONFIGURATION** ADDITIONAL CONFIGURATION REVIEW

The ds2 and dc2 node types replace the ds1 and dc1 node types, respectively. The newer ds2 and dc2 node types provide higher performance than ds1 and dc1 at no extra cost. [Learn more.](#)

Node type	<input type="text" value="dc2.large"/>	Specifies the compute, memory, storage, and I/O capacity of the cluster's nodes.
CPU	7 EC2 Compute Units (2 virtual cores) per node	
Memory	15.25 GiB per node	
Storage	160GB SSD storage per node	
I/O performance	Moderate	
Cluster type	<input type="text" value="Single Node"/>	
Number of compute nodes*	<input type="text" value="1"/>	Single Node clusters consist of a single node which performs both leader and compute functions.
Maximum	1	
Minimum	1	

Cancel [Previous](#) [Continue](#)

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## (RED SHIFT)

### Select VPC

Launch your Amazon Redshift cluster - Advanced settings | [Switch to quick launch](#)

CLUSTER DETAILS NODE CONFIGURATION **ADDITIONAL CONFIGURATION** REVIEW

Provide the optional additional configuration details below.

Cluster parameter group: **default.redshift-1.0** Parameter group to associate with this cluster.

Encrypt database: ☒ None ☐ KMS ☐ HSM [Learn more about database encryption](#)

Configure networking options:

Choose a VPC: **Default VPC (vpc-0720726f)** The identifier of the VPC in which you want to create your cluster

Cluster subnet group: **default** Selected Cluster Subnet Group may limit the choice of Availability Zones

Publicly accessible: ☒ Yes ☐ No Select Yes if you want the cluster to be accessible from the public internet. Select No if you want it to be accessible only from within your private VPC network.

Choose a public IP address: ☒ Yes ☐ No Select Yes if you want to select your own public IP address from a list of elastic IP (EIP) addresses that are already configured for your cluster's VPC. Select No if you want Amazon Redshift to provide an EIP for you instead.

Enhanced VPC Routing: ☒ Yes ☐ No Select Yes if you want to enable Enhanced VPC Routing. [Learn more](#)

Availability zone: **No Preference** The EC2 Availability Zone that the cluster will be created in.

If select quick launch cluster option not any details configuration

Click to quick launch cluster option

### Launch cluster

Amazon Redshift is a powerful, fully managed cloud data warehouse service. Redshift Spectrum extends the power of Redshift to query unstructured data in S3 – without loading your data into Redshift. With a few clicks in the AWS Management Console, you can launch a Redshift cluster and get started analyzing your data.

[Quick launch cluster](#)

[Launch cluster](#)

Note: Your cluster will launch in the Asia Pacific (Mumbai) region

See its required IAM roles so create 1 role

Launch your Amazon Redshift cluster - Quick launch | [Switch to advanced settings](#)

### Cluster specifications

Amazon Redshift offers On-demand and Reserved Instances pricing options. Save up to 75% over On-demand rates through Reserved Instances. To learn more, see [Amazon Redshift Pricing](#)

Node type\*: **dc2.large** Storage type: SSD Storage: 0.16 TB/node Compute optimized ⓘ

Number of compute nodes\*: **2** x 0.16 TB/node = 0.32 TB storage available ⓘ

Cluster identifier\*: **redshift-cluster-1** ⓘ

Master user name\*: **awsuser** ⓘ

Master user password\*: ..... ⓘ

Confirm password\*: ..... ⓘ

Database port\*: **5439** ⓘ

Available IAM roles: **Choose a role** ⓘ

[Cancel](#) [Launch cluster](#)



## (RED SHIFT)

### Click roles option

The screenshot shows the AWS IAM console interface. The left sidebar contains a search bar and a list of navigation options: Dashboard, Groups, Users, Roles (highlighted with a red circle), Policies, Identity providers, Account settings, Credential report, and Encryption keys. The main content area displays 'Welcome to Identity and Access Management' with a sign-in link, IAM Resources summary (Users: 3, Groups: 2, Roles: 9, Identity Providers: 0), and a Security Status section with five items: Delete your root access keys, Activate MFA on your root account, Create individual IAM users, Use groups to assign permissions, and Apply an IAM password policy. The right sidebar features a 'Feature Spotlight' video and 'Additional Information' links.

### Create role

The screenshot shows the 'Create role' page in the AWS IAM console. At the top, there are 'Create role' and 'Delete role' buttons. Below is a search bar. A table lists existing roles with columns for 'Role name', 'Description', and 'Trusted entities'. The table is currently empty.

### Select redshift and customize

The screenshot shows the 'Select your use case' page for creating a Redshift role. At the top, there are links to various AWS services: CloudFormation, EC2, GuardDuty, Opsworks, Step Functions, CloudHSM, EC2 - Fleet, Inspector, RDS, Storage Gateway, CloudWatch Events, EKS, CodeBuild, and Trusted Advisor. The 'Redshift' link is highlighted with a red box. Below, the 'Select your use case' section shows two options: 'Redshift' and 'Redshift - Customizable'. The 'Redshift - Customizable' option is highlighted with a red box. At the bottom, there are 'Cancel' and 'Next: Permissions' buttons, with the 'Next: Permissions' button highlighted by a red box.

## (RED SHIFT)

### Apply policy

Create policy ↺

Filter policies  Showing 5 results

	Policy name	Used as	Description
<input type="checkbox"/>	AmazonDMSRedshiftS3Role	None	Provides access to manage S3 settings f...
<input type="checkbox"/>	AmazonS3FullAccess	None	Provides full access to all buckets via the...
<input checked="" type="checkbox"/>	AmazonS3ReadOnlyAccess	None	Provides read only access to all buckets ...
<input type="checkbox"/>	AWSLambdaS3ExecutionRole-04488600-110...	None	
<input type="checkbox"/>	QuickSightAccessForS3StorageManagementA...	None	Policy used by QuickSight team to acces...

▶ Set permissions boundary

\* Required

Cancel

Previous

Next: Review

### Give role name

My Webinars x Redshift - AWS Console x IAM Management Console x

https://console.aws.amazon.com/iam/home?region=ap-south-1#/roles\$new?step=review&selectedService=Redshift&selectedUseCase=Redshift&policies=arn:aws:si...

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### Create role

1 2 3

#### Review

Provide the required information below and review this role before you create it.

Role name\*

Role description

Maximum 1000 characters. Use alphanumeric and "+-.\_@" characters.

Trusted entities AWS service: redshift.amazonaws.com

Policies AmazonS3ReadOnlyAccess

Permissions boundary Permissions boundary is not set

\* Required

Cancel Previous Create role

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### Created

✓ The role myRedshiftRole2 has been created.

Create role Delete role

Search Showing 10 results

## (RED SHIFT)

### Click to role and assign role

My Webinars x Redshift - AWS Console x IAM Management Console x +

← → ↻ https://ap-south-1.console.aws.amazon.com/redshift/home?region=ap-south-1#quick-launch: ☆ 📱 🌐 🗺️

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Redshift dashboard

Clusters

Query editor Beta

Saved queries Beta

Snapshots

Security

Parameter groups

Workload management

Reserved nodes

Events

Connect client

What's new

Launch your Amazon Redshift cluster - Quick launch | [Switch to advanced settings](#)

Cluster specifications

Amazon Redshift offers On-demand and Reserved Instances pricing options. Save up to 75% over On-demand rates through Reserved Instances. To learn more, see [Amazon Redshift Pricing](#)

Node type\* **dc2.large** Storage type: SSD Storage: 0.16 TB/node Compute optimized ⓘ

Number of compute nodes\* 2 x 0.16 TB/node = 0.32 TB storage available ⓘ

Cluster identifier\* redshift-cluster-1 ⓘ

Master user name\* awsuser ⓘ

Master user password\* ..... ⓘ

Confirm password\* ..... ⓘ

Database port\* 5439 ⓘ

Available IAM roles Choose a role ⓘ

Choose a role

myRedshiftRole2

Cancel Launch cluster

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### Launch cluster

Launch your Amazon Redshift cluster - Quick launch | [Switch to advanced settings](#)

#### Cluster specifications

Amazon Redshift offers On-demand and Reserved Instances pricing options. Save up to 75% over On-demand rates through Reserved Instances. To learn more, see [Amazon Redshift Pricing](#)

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Number of compute nodes\* 2 x 0.16 TB/node = 0.32 TB storage available ⓘ

Cluster identifier\* redshift-cluster-1 ⓘ

Master user name\* awsuser ⓘ

Master user password\* ..... ⓘ

Confirm password\* ..... ⓘ

Database port\* 5439 ⓘ

Available IAM roles Choose a role ⓘ

myRedshiftRole2

Cancel Launch cluster

### Successfully created

✓ Cluster **redshift-cluster-1** is being created. Your cluster may take a few minutes to launch.

You will start accruing charges as soon as your cluster is active.

#### Applicable charges

The on-demand hourly rate for this cluster will be \$0.25 , or \$0.25 /node. If you have purchased reserved nodes in this region for this node type that are active, your costs will be discounted. Additional nodes will be billed at the on-demand rate.

For more information, see [Amazon Redshift Pricing](#) and [Reserved Nodes Documentation](#)



## (RED SHIFT)

### Status available than click cluster

Quick launch cluster Launch cluster Cluster ▾ Database ▾ Backup ▾ Manage Tags Manage IAM roles

Cluster Cluster Status DB Health Release Status In Maintenance Recent Events Config timeline

redshift-cluster-1 available healthy Up to date no 9 View timeline

### All details

Endpoint redshift-cluster-1.cr2oafnthwrz.ap-south-1.redshift.amazonaws.com:5439 (authorized) ⓘ

<b>Cluster Properties</b>	<b>Cluster Status</b>
Cluster Name redshift-cluster-1	Cluster Status available
Node Type dc2.large	Database Health healthy
Nodes 2	In Maintenance Mode no
Zone ap-south-1b	Parameter Group Apply Status in-sync
Cluster Parameter Group default.redshift-1.0 (in-sync)	Pending Modified Values None
Cluster Subnet Group default	
Enhanced VPC Routing No	
IAM Roles See IAM Roles	

<b>Cluster Database Properties</b>	<b>Backup, Audit Logging, and Maintenance</b>
Port 5439	Automated Snapshot Retention Period 1
Database Name dev	Cross-Region Snapshots Enabled No
Master Username awsuser	Audit Logging Enabled No
Encrypted No	Maintenance Window thu:05:00-thu:05:30
	Allow Version Upgrade Yes

Tags

### Click to vpc

Cluster Subnet Group default

VPC security groups [MyGroup \(sg-01afabc0e472c32d7\)](#) (active)

Cluster Parameter Group default.redshift-1.0 (in-sync)

Enhanced VPC Routing No

### Create rule

Edit inbound rules

Type ⓘ	Protocol ⓘ	Port Range ⓘ	Source ⓘ	Description ⓘ
Custom TCP ▾	TCP	5439	Custom ▾ 0.0.0.0/0	e.g. SSH for Admin Desktop

Add Rule

NOTE: Any edits made on existing rules will result in the edited rule being deleted and a new rule created with the new details. This will cause traffic that depends on that rule to be dropped for a very brief period of time until the new rule can be created.

Cancel Save

## (RED SHIFT)

### Copy JDBC URL

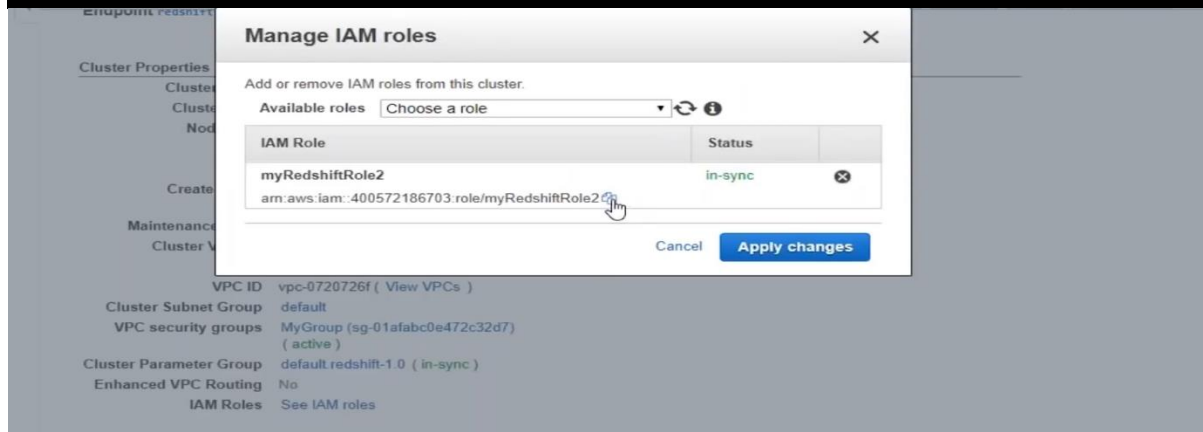
#### Cluster Database Properties

Port 5439  
Publicly Accessible Yes  
Database Name dev  
Master Username awsuser  
Encrypted No  
JDBC URL jdbc:redshift://redshift-cluster-1.cr2oafnthwrz.ap-south-1.redshift.amazonaws.com:5439/dev  
ODBC URL Driver={Amazon Redshift (x64)};  
Server=redshift-cluster-1.cr2oafnthwrz.ap-south-

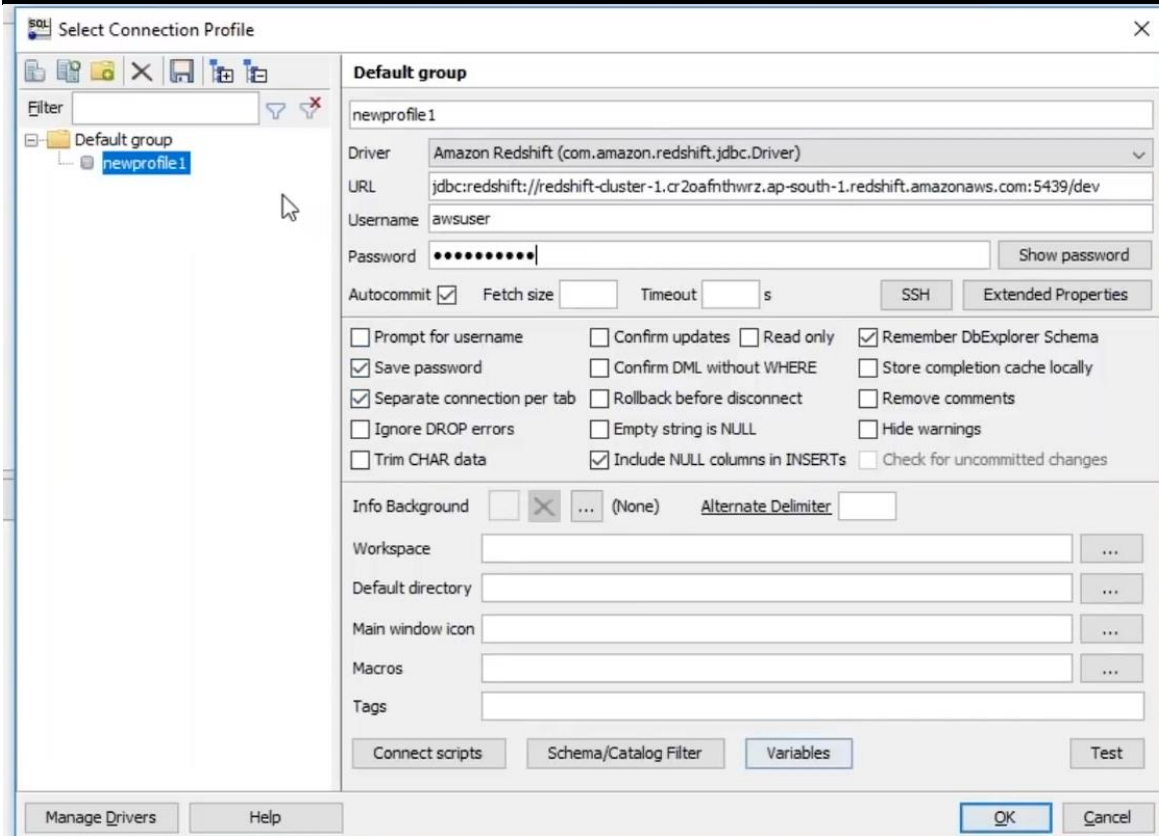
#### Backup, Audit Logging, and Maintenance

Automated Snapshot Retention Period 1  
Cross-Region Snapshots Enabled No  
Audit Logging Enabled No  
Maintenance Window thu:05:00-thu:05:30  
Allow Version Upgrade Yes

### COPY ID

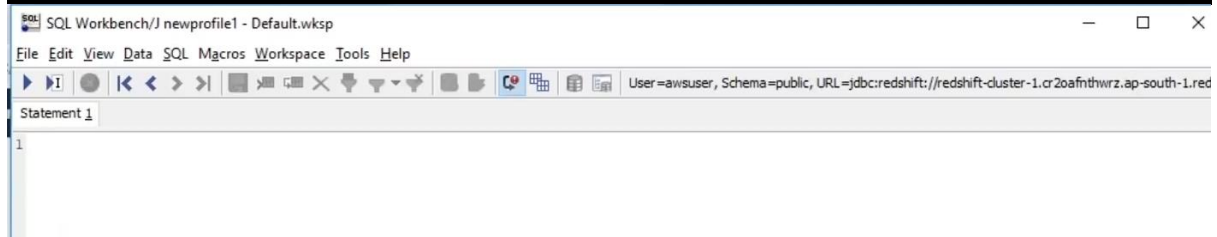


### OPEN WORKBENCH AND PASTE JDBC URL



## (RED SHIFT)

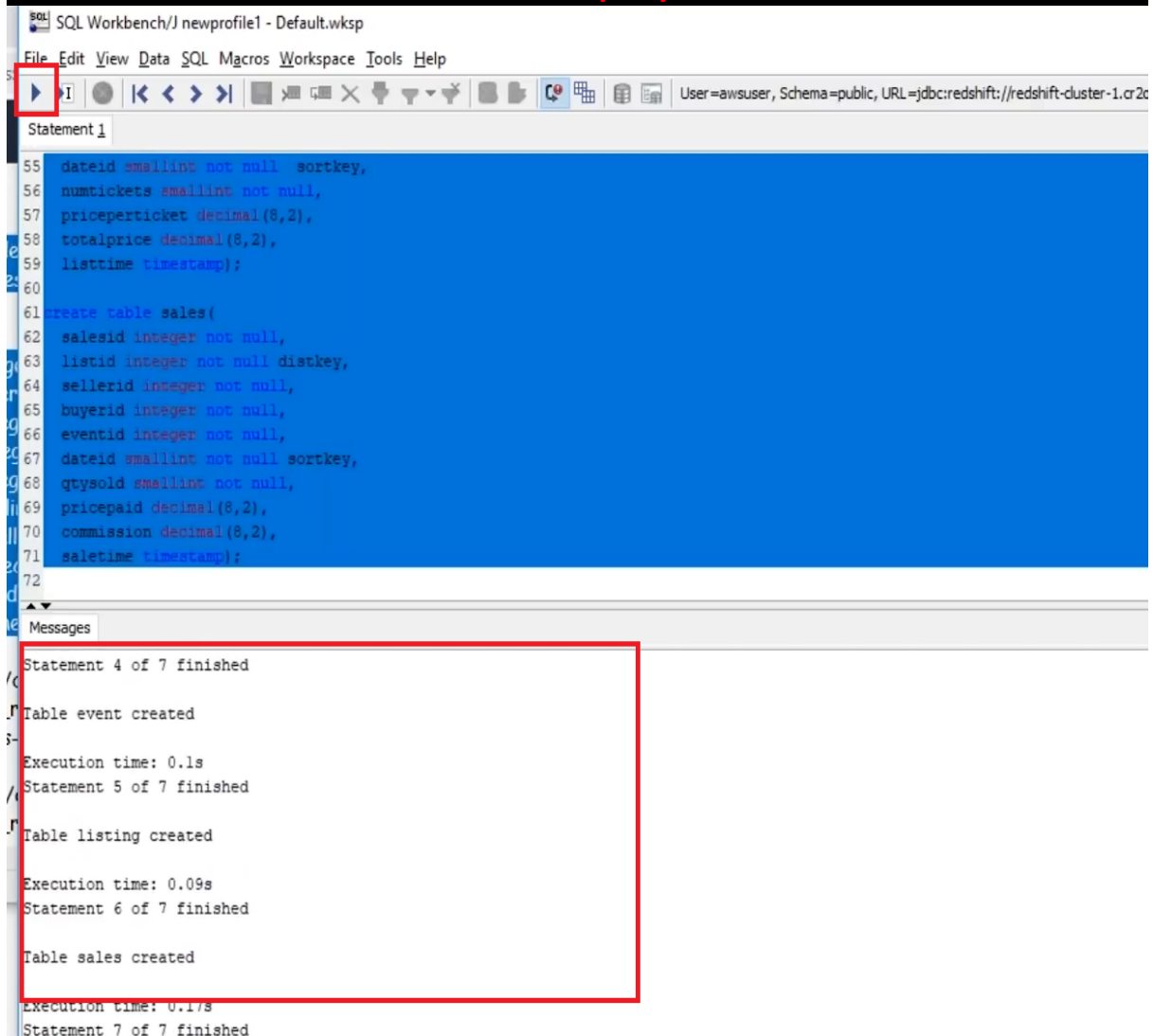
### CONNECTED



### Enter query for testing



### Run all query

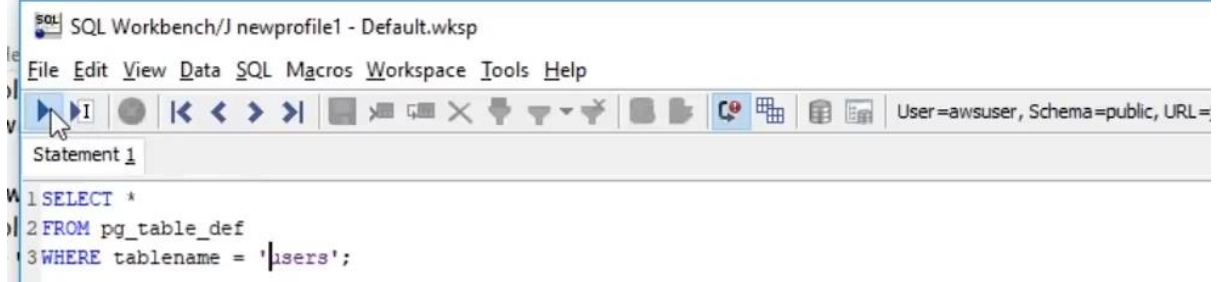


## (RED SHIFT)

### Copy the data from AMAZON S3 TO AMAZON REDSHIFT PASTE IAM ID

```
8
9 copy category from 's3://awssampleduswest2/ticket/category_pipe.txt'
0 credentials 'aws_iam_role=arn:aws:iam::400572186703:role/myRedshiftRole2'
1 delimiter '|' region 'us-west-2';
2
3 copy date from 's3://awssampleduswest2/ticket/date2008_pipe.txt'
4 credentials 'aws_iam_role=arn:aws:iam::400572186703:role/myRedshiftRole2'
5 delimiter '|' region 'us-west-2';
6
```

### After SUCCESSFULLY RUN FIND TABLE



### See output

Result 1		Messages					
schemaname	tablename	column	type	encoding	distkey	sortkey	notnull
public	users	userid	integer	delta	true	1	true
public	users	username	character(8)	lzo	false	0	false
public	users	firstname	character varying(30)	text32k	false	0	false
public	users	lastname	character varying(30)	text32k	false	0	false
public	users	city	character varying(30)	text32k	false	0	false
public	users	state	character(2)	none	false	0	false
public	users	email	character varying(100)	lzo	false	0	false
public	users	phone	character(14)	lzo	false	0	false
public	users	likesports	boolean	none	false	0	false
public	users	like theatre	boolean	none	false	0	false
public	users	likeconcerts	boolean	none	false	0	false
public	users	likejazz	boolean	none	false	0	false
public	users	likeclassical	boolean	none	false	0	false
public	users	likeopera	boolean	none	false	0	false
public	users	likerock	boolean	none	false	0	false

### Check all query till now

Redshift dashboard		Cluster: <b>redshift-cluster-1</b>	Configuration	Status	Cluster Performance	Database Performance	<b>Queries</b>	Loads	Table restore
Clusters		Terminate Query							
Query editor <small>Beta</small>		Filter: Last 24 Hours Search...							
Saved queries <small>Beta</small>									
Snapshots									
Security									
Parameter groups									
Workload management									
Reserved nodes									
Events									
Connect client									
What's new									
		Query	Run time	Start time	Status	User	Copy	SQL	
		269	2.38s	September 28, 2018 at 1:16:23 PM UTC+5:30	COMPLETED	awsuser		SELECT firstname FROM users WHERE state LIKE 'NH'	
		261	4.1s	September 28, 2018 at 1:15:14 PM UTC+5:30	COMPLETED	awsuser		SELECT * FROM users	
		250	7.41s	September 28, 2018 at 1:14:03 PM UTC+5:30	COMPLETED	awsuser		SELECT sum(qtysold) FROM sales, date WHERE sales.d...	
		240	27ms	September 28, 2018 at 1:12:09 PM UTC+5:30	ABORTED	awsuser		COPY ANALYZE sales	
		239	1.33s	September 28, 2018 at 1:12:08 PM UTC+5:30	COMPLETED	awsuser		padb_fetch_sample: select * from listing	
		237	2.57s	September 28, 2018 at 1:12:05 PM UTC+5:30	COMPLETED	awsuser		padb_fetch_sample: select * from listing	
		236	6.03s	September 28, 2018 at 1:11:59 PM UTC+5:30	COMPLETED	awsuser		copy listing from 's3://awssampleduswest2/ticket/listings_...	
		234	1.71s	September 28, 2018 at 1:11:57 PM UTC+5:30	COMPLETED	awsuser		analyze compression phase 1	
		232	2.13s	September 28, 2018 at 1:11:55 PM UTC+5:30	COMPLETED	awsuser		analyze compression phase 1	