




1) Creation of a Redshift Cluster




Services


Search

[Alt+S]

Cluster configuration

Cluster identifier

This is the unique key that identifies a cluster.

my_redshift_1

The identifier must be from 1-63 characters. Valid characters are a-z (lowercase only) and - (hyphen).

Choose the size of the cluster

☒ I'll choose
 ☐ Help me choose

Node type [Info](#)

Choose a node type that meets your CPU, RAM, storage capacity, and drive type requirements.

dc2.large

Number of nodes

Enter the number of nodes that you need.

2

Range (1-32)

dc2.large | 2 nodes

\$365.00/month

Estimated on-demand compute price

320 GB

Total compressed storage

The total storage capacity for the

Database configurations

Admin user name

Enter a login ID for the admin user of your DB instance.

punith

The name must be 1-128 alphanumeric characters, and it can't be a [reserved word](#).

☐ Auto generate password


Amazon Redshift can generate a password for you, or you can specify your own password.

Admin user password

Must be 8-64 characters long. Must contain at least one uppercase letter, one lowercase letter and one number. Can be any printable ASCII character except "/", "", or "@".

☐ Show password

Cluster permissions


Create an IAM role as the default for this cluster that has the [AmazonRedshiftAllCommandsFullAccess](#) policy attached. This policy includes permissions to

aws

Services

Q Search

[Alt+S]

1

Create an IAM role as the default for this cluster that has the **AmazonRedshiftAllCommandsFullAccess** policy attached. This policy includes permissions to run SQL commands to COPY, UNLOAD, and query data with Amazon Redshift. The policy also grants permissions to run SELECT statements for related services, such as Amazon S3, Amazon CloudWatch logs, Amazon SageMaker, and AWS Glue.

Associated IAM roles (2)

Info

Create, associate, or remove an IAM role. You can associate up to 50 IAM roles. You can also choose an IAM role and set it as the default for this cluster.

Set default ▼

Manage IAM roles ▼

Q Search for associated IAM role by name, status, or role type

< 1 >

<input type="checkbox"/>	IAM roles	▲	Status ▼	Role type ▼
<input type="checkbox"/>	LabRole		Not applied	--
<input type="checkbox"/>	myRedshiftRole		Not applied	--

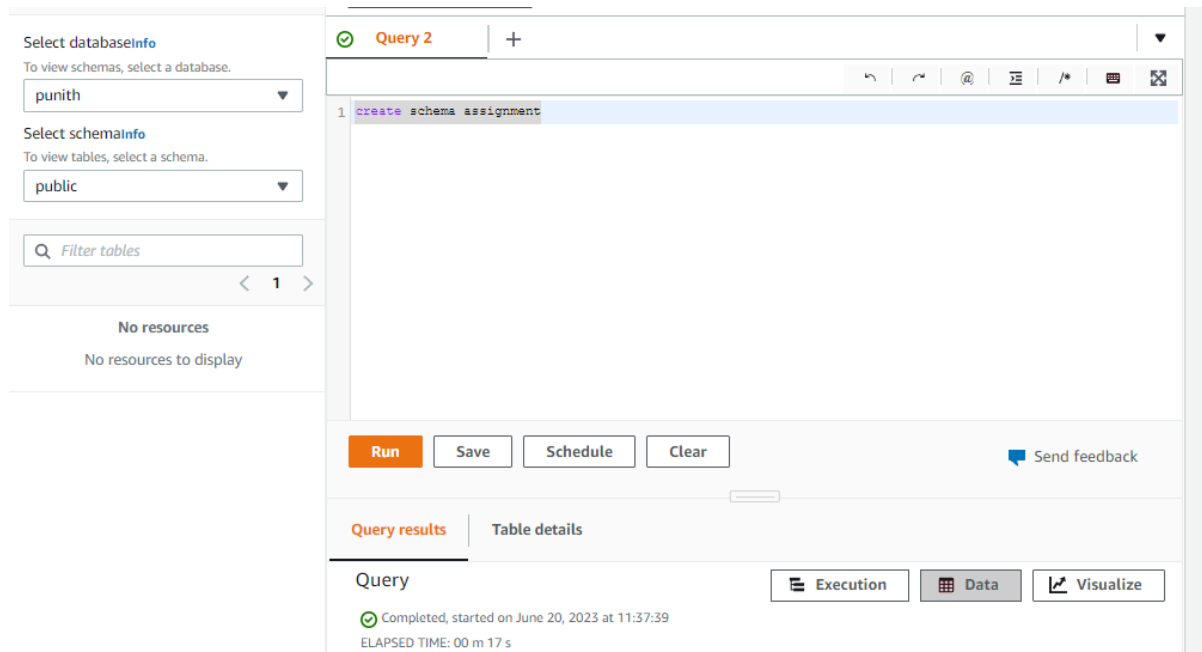
Additional configurations

☒ Use defaults

These configurations are optional, and default settings have been defined to help you get started with your cluster. Turn off "Use defaults" to

2) Loading data into a Redshift cluster from Amazon S3 bucket

Queries to copy the data from S3 buckets to the Redshift cluster in the appropriate tables



Select database [Info](#)
To view schemas, select a database.
punith

Select schema [Info](#)
To view tables, select a schema.
public

Filter tables

No resources
No resources to display

Query 2

```
1 Create schema assignment
```

Run Save Schedule Clear

Send feedback

Query results Table details

Query

Execution Data Visualize

Completed, started on June 20, 2023 at 11:37:39
ELAPSED TIME: 00 m 17 s

3) Location dimension table creation and load
create table assignment.location_dim
(location VARCHAR(50),
streetname VARCHAR(255),
street_number INT,
zipcode INT,
lat DECIMAL(10,3),
lon DECIMAL(10,3),
location_id bigint,
PRIMARY KEY (location_id)
);

Select database[info](#)

To view schemas, select a database.

punith

Select schema[info](#)

To view tables, select a schema.

public

Filter tables

< 1 >

No resources

No resources to display

Query 2

```

1 create table assignment.location_dim
2 ( location VARCHAR(50),
3 streetname VARCHAR(255),
4 street_number INT,
5 zipcode INT,
6 lat DECIMAL(10,3),
7 lon DECIMAL(10,3),
8 location_id bigint,
9 PRIMARY KEY (location_id)
10 );

```

Run

Save

Schedule

Clear

Send feedback

Query results

Table details

Query

Execution

Data

Visualize

Completed, started on June 20, 2023 at 11:39:20

ELAPSED TIME: 00 m 05 s

**4)copy assignment.location_dim
from 's3://puniths3redshift/All_tables/LOCATION_DIM/part'
iam_role 'arn:aws:iam::025240823824:role/myRedshiftRole'
delimiter ',' region 'us-east-1'
CSV;**

Select database[info](#)

To view schemas, select a database.

punith

Select schema[info](#)

To view tables, select a schema.

public

Filter tables

< 1 >

No resources

No resources to display

Query 2

```

1 copy assignment.location_dim
2 from 's3://puniths3redshift/All_tables/LOCATION_DIM/part'
3 iam_role 'arn:aws:iam::025240823824:role/myRedshiftRole'
4 delimiter ',' region 'us-east-1'
5 CSV;

```

Run

Save

Schedule

Clear

Send feedback

Query results

Table details

Query 330

Execution

Data

Visualize

Completed, started on June 20, 2023 at 11:54:29

ELAPSED TIME: 00 m 08 s

5) `select count(*) from assignment.location_dim`

To view schemas, select a database.

punith

Select schema [info](#)

To view tables, select a schema.

public

Filter tables

< 1 >

No resources

No resources to display

```
1 select count(*) from assignment.location_dim
```

Run Save Schedule Clear

Query results Table details

Query 357 [🔗](#)

Completed, started on June 20, 2023 at 11:56:16

ELAPSED TIME: 00 m 02 s

Rows returned (1)

Search rows

count
109

6) ATM Dimension table creation and load

`create table assignment.atm_dim`

```
(
  atm_number VARCHAR(20),
  atm_manufacturer VARCHAR(50),
  atm_location_id bigint,
  atm_id bigint,
  PRIMARY KEY( atm_id),
  FOREIGN KEY (atm_location_id) REFERENCES assignment.location_dim
  (location_id)
);
```

TO VIEW RESULTS, SELECT A DATABASE.

punith

Select schema info

To view tables, select a schema.

public

Filter tables

No resources

No resources to display

```

1 create table assignment.atm_dim
2 {
3   atm_number VARCHAR(20),
4   atm_manufacturer VARCHAR(50),
5   atm_location_id bigint,
6   atm_id bigint,
7   PRIMARY KEY (atm_id),
8   FOREIGN KEY (atm_location_id) REFERENCES assignment.location_dim (location_id)
9 };
```

Run Save Schedule Clear

Send feedback

Query results Table details

Query

Execution Data Visualize

Completed, started on June 20, 2023 at 11:59:03

ELAPSED TIME: 00 m 02 s

7)copy assignment.atm_dim
from 's3://puniths3redshift/All_tables/ATM_DIM/part'
iam_role 'arn:aws:iam::025240823824:role/myRedshiftRole'
delimiter ',' region 'us-east-1'
CSV;

TO VIEW RESULTS, SELECT A DATABASE.

punith

Select schema info

To view tables, select a schema.

public

Filter tables

No resources

No resources to display

```

1 copy assignment.atm_dim
2 from 's3://puniths3redshift/All_tables/ATM_DIM/part'
3 iam_role 'arn:aws:iam::025240823824:role/myRedshiftRole'
4 delimiter ',' region 'us-east-1'
5 CSV;
```

Run Save Schedule Clear

Send feedback

Query results Table details

Query 463

Execution Data Visualize

Completed, started on June 20, 2023 at 12:07:41

ELAPSED TIME: 04 m 03 s

8)select count(*) from assignment.atm_dim

To view schemas, select a database.

punith

Select schema [info](#)

To view tables, select a schema.

public

Filter tables

< 1 >

No resources

No resources to display

```
1 select count(*) from assignment.atm_dim
```

Run Save Schedule Clear

Query results | Table details

Query 519 [🔗](#)

✓ Completed, started on June 20, 2023 at 12:08:24

ELAPSED TIME: 00 m 02 s

Rows returned (1)

Search rows

count
113

9) Date dimension table creation and load

```
create table assignment.date_dim
(
year INT,
month VARCHAR(20),
day INT,
hour INT,
weekday VARCHAR(20),
full_date_time TIMESTAMP,
date_id bigint,
primary key(date_id)
);
```

Select databaseInfo

To view schemas, select a database.

punith

Select schemaInfo

To view tables, select a schema.

public

Filter tables

No resources

No resources to display

```

1 create table assignment.date_dim
2 (
3   year INT,
4   month VARCHAR(20),
5   day INT,
6   hour INT,
7   weekday VARCHAR(20),
8   full_date_time TIMESTAMP,
9   date_id bigint,
10  primary key(date_id)
11 );

```

Run

Save

Schedule

Clear

Query results

Table details

Query

Execution

Data

Completed, started on June 20, 2023 at 12:10:23

ELAPSED TIME: 00 m 02 s

10)copy assignment.date_dim
from 's3://puniths3redshift/All_tables/DATE_DIM/part'
iam_role 'arn:aws:iam::025240823824:role/myRedshiftRole'
delimiter ',' region 'us-east-1'
CSV;

Select databaseInfo

To view schemas, select a database.

punith

Select schemaInfo

To view tables, select a schema.

public

Filter tables

No resources

No resources to display

```

1 copy assignment.date_dim
2 from 's3://puniths3redshift/All_tables/DATE_DIM/part'
3 iam_role 'arn:aws:iam::025240823824:role/myRedshiftRole'
4 delimiter ',' region 'us-east-1'
5 CSV;

```

Run

Save

Schedule

Clear

Query results

Table details

Query 572

Execution

Data

Completed, started on June 20, 2023 at 12:12:14

ELAPSED TIME: 00 m 08 s

11) ***select count(*) from assignment.date_dim***

To view schemas, select a database.

punith ▼

Select schema [info](#)

To view tables, select a schema.

public ▼

Q Filter tables

< 1 >

No resources

No resources to display

```
1 select count(*) from assignment.date_dim
```

Run Save Schedule Clear

Query results | Table details

Query 592 [🔗](#)

✅ Completed, started on June 20, 2023 at 12:13:05

ELAPSED TIME: 00 m 02 s

Rows returned (1)

Q Search rows

count
8685

12) ***CARD_TYPE Dimension table creation and load***
create table assignment.card_type_dim
(
card_type VARCHAR(30),
card_type_id bigint,
PRIMARY KEY (card_type_id)
);

To view schemas, select a database.

punith

Select schema [Info](#)

To view tables, select a schema.

public

Filter tables

< 1 >

No resources

No resources to display

```

1 create table assignment.card_type_dim
2 (
3   card_type VARCHAR(30),
4   card_type_id bigint,
5   PRIMARY KEY (card_type_id)
6 );

```

Run Save Schedule Clear

Query results Table details

Query

✓ Completed, started on June 20, 2023 at 12:14:10
ELAPSED TIME: 00 m 03 s

**13)copy assignment.card_type_dim
from 's3://puniths3redshift/All_tables/CARD_TYPE_DIM/part'
iam_role 'arn:aws:iam::025240823824:role/myRedshiftRole'
delimiter ',' region 'us-east-1'
CSV;**

To view schemas, select a database.

punith

Select schema [Info](#)

To view tables, select a schema.

public

Q Filter tables

< 1 >

No resources

No resources to display

```

1 copy assignment.card_type_dim
2 from 's3://puniths3redshift/All_tables/CARD_TYPE_DIM/part'
3 iam_role 'arn:aws:iam::025240823824:role/myRedshiftRole'
4 delimiter ',' region 'us-east-1'
5 CSV;

```

Run Save Schedule Clear

Query results Table details

Query 636 [🔗](#)

✅ Completed, started on June 20, 2023 at 12:16:13
ELAPSED TIME: 00 m 08 s

📄 Export

14) *select count(*) from assignment.card_type_dim*

To view schemas, select a database.

punith

Select schema [Info](#)

To view tables, select a schema.

public

Q Filter tables

< 1 >

No resources

No resources to display

```

1 select count(*) from assignment.card_type_dim

```

Run Save Schedule Clear

Query results Table details

Query 689 [🔗](#)

✅ Completed, started on June 20, 2023 at 12:19:57
ELAPSED TIME: 00 m 02 s

Rows returned (1)

Q Search rows

count
12

15) FACT Table creation and data load

create table assignment.FACT_ATM_TRANS

(trans_id BIGINT,

atm_id BIGINT,

weather_loc_id BIGINT,

date_id BIGINT,

card_type_id BIGINT,

atm_status VARCHAR(20),

currency VARCHAR(10),

service VARCHAR(20),

transaction_amount INT,

message_code VARCHAR(255),

message_text VARCHAR(255),

rain_3h DECIMAL(10,3),

clouds_all INT,

weather_id BIGINT,

weather_main VARCHAR(50),

weather_description VARCHAR(255),

PRIMARY KEY (trans_id),

FOREIGN KEY (weather_loc_id) REFERENCES assignment.location_dim
(location_id),

FOREIGN KEY (atm_id) REFERENCES assignment.atm_dim (atm_id),

FOREIGN KEY (date_id) REFERENCES assignment.date_dim (date_id)

);

To view schemas, select a database.

punith ▼

Select schema [Info](#)

To view tables, select a schema.

public ▼

Filter tables

< 1 >

No resources

No resources to display

```

1 create table assignment.FACT_ATM_TRANS
2 ( trans_id BIGINT,
3 atm_id BIGINT,
4 weather_loc_id BIGINT,
5 date_id BIGINT,
6 card_type_id BIGINT,
7 atm_status VARCHAR(20),
8 currency VARCHAR(10),
9 service VARCHAR(20),
10 transaction_amount INT,
11 message_code VARCHAR(255),
12 message_text VARCHAR(255),
13 rain_3h DECIMAL(10,3),
14 clouds_all INT

```

Run Save Schedule Clear

Query results Table details

Query

✔ Completed, started on June 20, 2023 at 12:21:26

ELAPSED TIME: 00 m 22 s

**16)copy assignment.FACT_ATM_TRANS
from 's3://puniths3redshift/All_tables/FACT_ATM_TRANS/part'
iam_role 'arn:aws:iam::025240823824:role/myRedshiftRole'
delimiter ',' region 'us-east-1'
CSV;**

To view schemas, select a database.

punith

Select schema [Info](#)

To view tables, select a schema.

public

Filter tables

< 1 >

No resources

No resources to display

```

1 copy assignment.FACT_ATM_TRANS
2 from 's3://puniths3redshift/All_tables/FACT_ATM_TRANS/part'
3 iam_role 'arn:aws:iam::025240823824:role/myRedshiftRole'
4 delimiter ',' region 'us-east-1'
5 CSV;

```

Run Save Schedule Clear

Query results | Table details

Query 750 [Ex](#)

Completed, started on June 20, 2023 at 12:23:45

ELAPSED TIME: 00 m 19 s

17)select count(*) from assignment.FACT_ATM_TRANS

To view schemas, select a database.

punith

Select schema [Info](#)

To view tables, select a schema.

public

Filter tables

< 1 >

No resources

No resources to display

```

1 select count(*) from assignment.FACT_ATM_TRANS

```

Run Save Schedule Clear

Query results | Table details

Query 776 [Ex](#)

Completed, started on June 20, 2023 at 12:24:52

ELAPSED TIME: 00 m 02 s

Rows returned (1)

Search rows

count
2468572