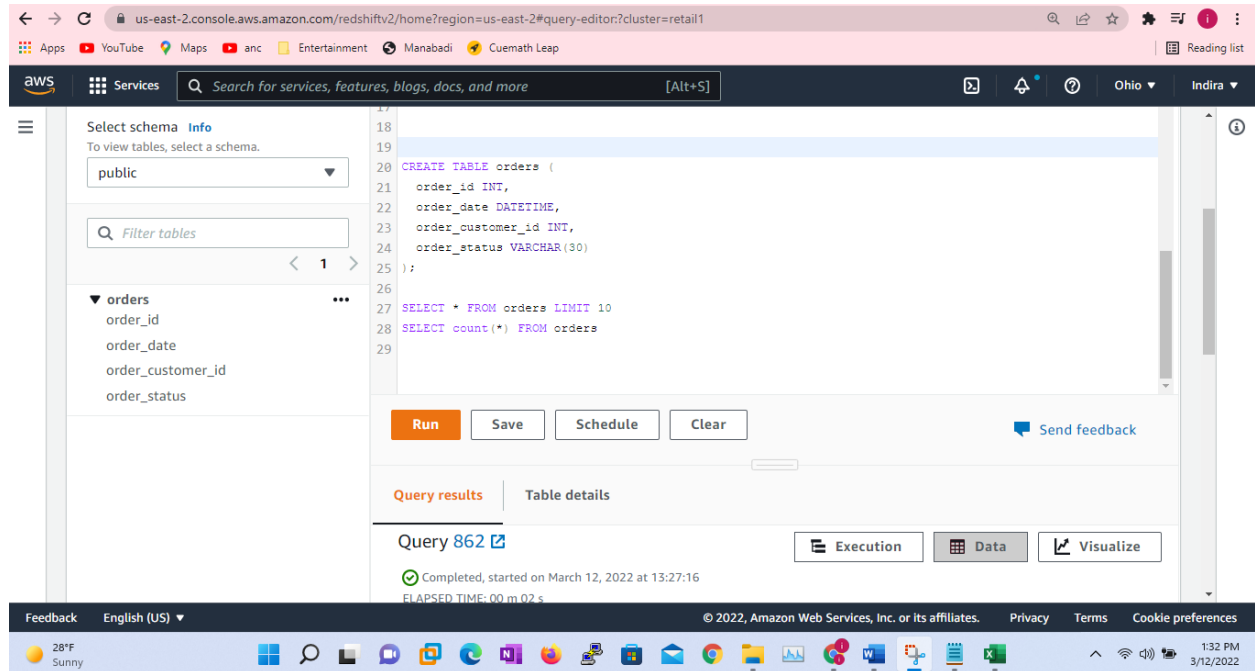


Copy Data from S3 into Redshift Tables

Create the new database retail_db using below command:

```
CREATE DATABASE retail_db
```

Create the Table Orders with in the database retail_db.



Once the order table is created, create the IAM that has Amazons3fullaccess permissions. Then create the copy command to copy the data from S3 to Redshift database tables.

```
! COPY orders FROM 's3://indu-retail/retail_db/orders/part-00000'  
! CREDENTIALS  
! 'aws_access_key_id=AKIARHAWEQ3PHLP6ATXD;aws_secret_access_key=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'  
! CSV;
```

Validate data is copied or not: `SELECT * FROM orders LIMIT 10`

ELAPSED TIME: 00 m 01 s

Rows returned (10)

Search rows

< 1 > ⚙

order_id	order_date	order_customer_id	order_status
1	2013-07-25 00:00:00	11599	CLOSED
2	2013-07-25 00:00:00	256	PENDING_PAYMENT
3	2013-07-25 00:00:00	12111	COMPLETE
4	2013-07-25 00:00:00	8827	CLOSED
5	2013-07-25 00:00:00	11318	COMPLETE
6	2013-07-25 00:00:00	7130	COMPLETE
7	2013-07-25 00:00:00	4530	COMPLETE

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Create IAM role for redshift to access s3

console.aws.amazon.com/iamv2/home#/roles/details/ITVRedshiftS3FullAccessRole?section=permissions

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Identity and Access Management (IAM)

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Access management

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- Users
- Roles**
- Policies
- Identity providers
- Account settings

Access reports

- Access analyzer
- Archive rules
- Analyzers
- Settings
- Credential report

ITVRedshiftS3FullAccessRole

Allows Redshift clusters to consume files to s3 services on your behalf.

Delete

Edit

Summary

Creation date
March 12, 2022, 13:54 (UTC-06:00)

Last activity
None

ARN Copied
arn:aws:iam::083798296286:role/ITVRedshiftS3FullAccessRole

Maximum session duration
1 hour

Permissions Trust relationships Tags Access Advisor Revoke sessions

Permissions policies (1)
You can attach up to 10 managed policies.

Filter policies by property or policy name and press enter

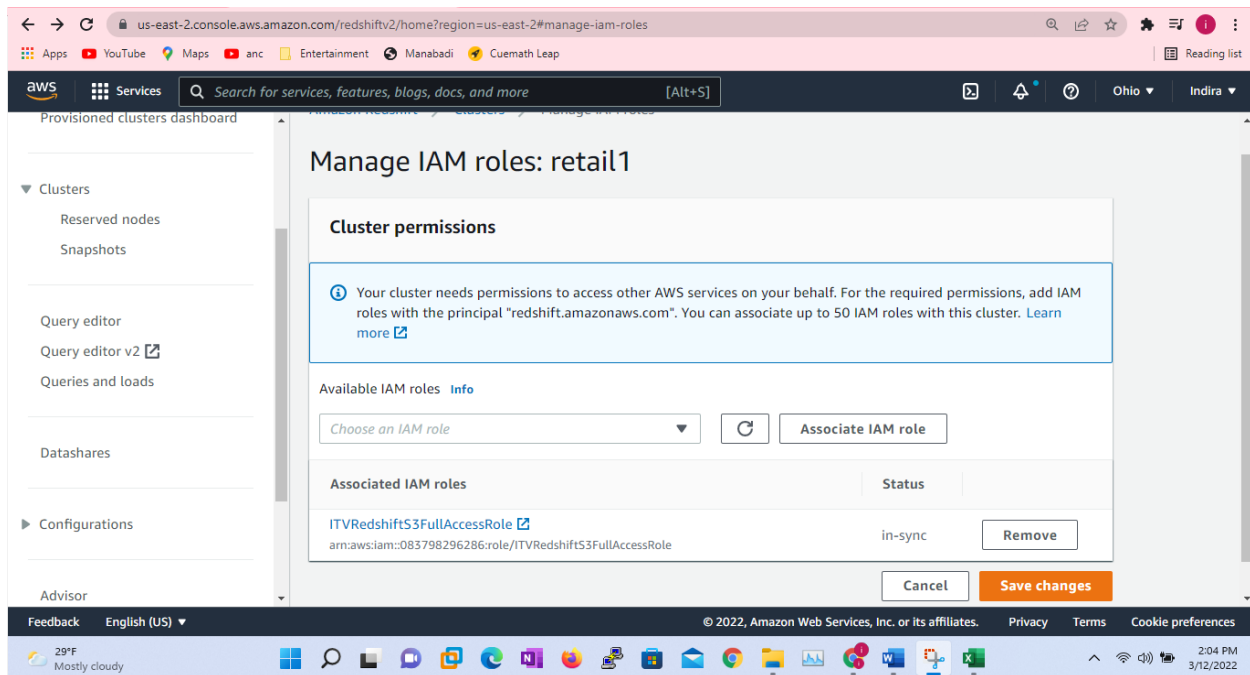
Simulate Remove Add permissions

Feedback English (US)

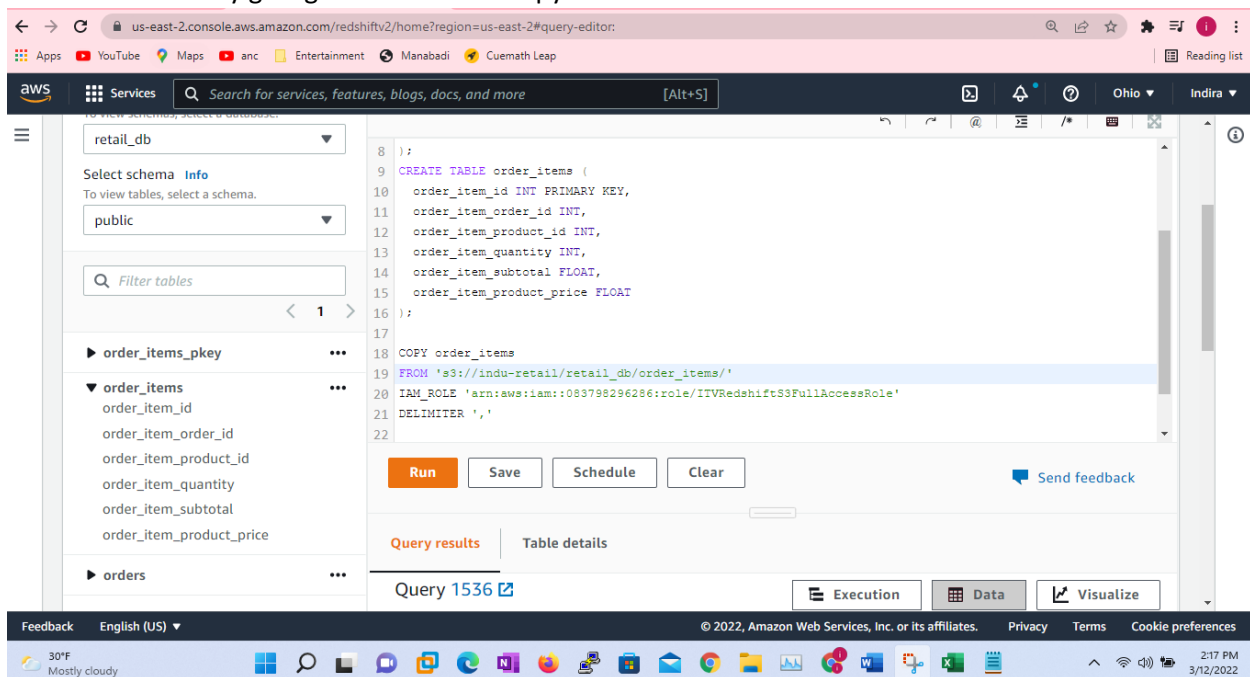
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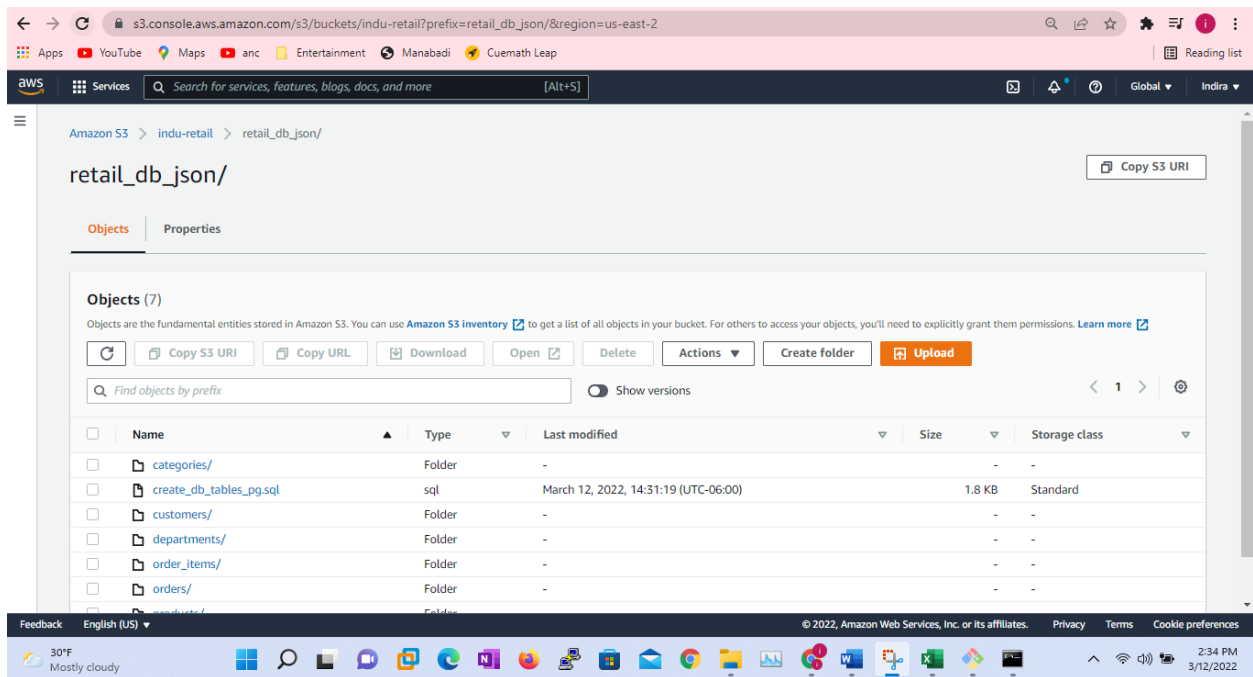
Created the role that has s3fullaccess permission and attach that IAM role to redshift cluster.



Create the Table order_items and copied the data from s3://indu-retail/retail_db/orders_items Into the Redshift by giving the arn : in the copy command.



Set up JSON Dataset in S3 for Redshift



Copy command to copy the data from s3 to Redshift which is in JSON format.

```
17
18 COPY order_items
19 FROM 's3://indu-retail/retail_db_json/order_items'
20 IAM_ROLE 'arn:aws:iam::083798296286:role/ITVRedshiftS3FullAccessRole'
21 JSON AS 'auto'
```

Rows returned (10)

Search rows

order_item_id	order_item_order_id	order_item_product_id	order_item_quantity	order_item_price
1	1	957	1	299.9
3	2	502	5	250
6	4	365	5	299.9
8	4	1014	4	199.9
11	5	1014	2	99.96
12	5	957	1	299.9
13	5	403	1	129.9

Figure 1 Copied the data which is in JSON format into Redshift tables