**IDS 410 – Business Database Technology**

**Fall 2022**

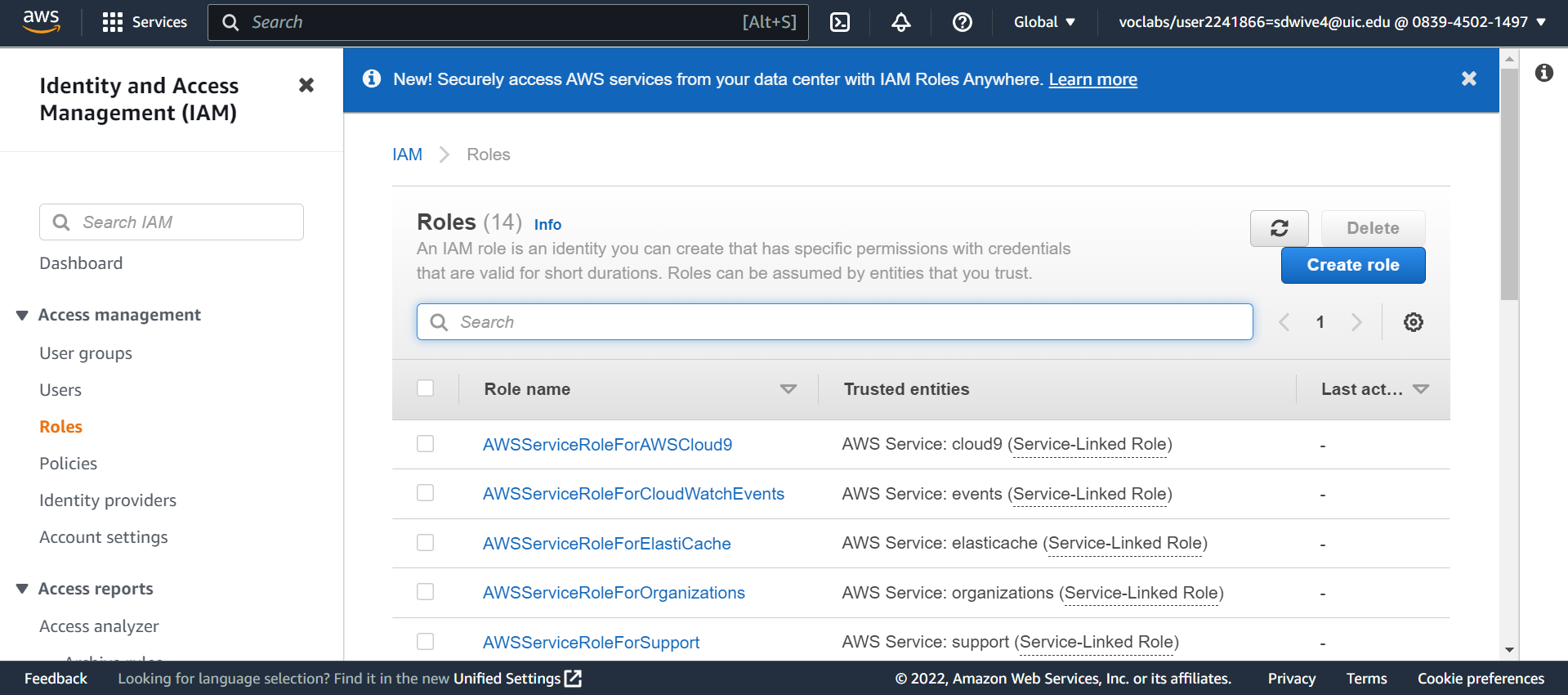
**AWS Lab 4**

**Submitted by:**

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**Task 1: Review the security group for accessing the Amazon Redshift console**

**Choose Roles in IAM.**

****

**Look for myRedShiftRoleGraphical user interface, text, application, email

Description automatically generated**

**Task 2: Create and configure an Amazon Redshift cluster**

**Create Cluster from Amazon Redshift services with the below configurations.**

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**A picture containing graphical user interface

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**Task 2.1: Create a security group for your cluster**

**Choose Security groups from the EC2 service with the following configurations.**

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**Graphical user interface, application

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**Task 2.2: Configure your Amazon Redshift cluster**

**Select the created cluster from the Redshift Service and Edit the Network and Security Settings section under the properties tab.**

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**Select the Redshift Security Group from the dropdown list and remove the default group.**

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**Task 3: Load data into your Amazon Redshift cluster**

**Task 3.1: Create the tables in the dev database and connect to the database**

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**Use the following configurations to connect to the database.**

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**Create users table from the query editor.**

Graphical user interface, text, application, email

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**Create data and sales table**

**Graphical user interface, text, application

Description automatically generated**

**Graphical user interface, text, application, email

Description automatically generated**

**Task 3.2: Load data from Amazon S3**

**Run the following queries.**

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Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application

Description automatically generated

**Task 4: Query the data**

**To see the overall structure of the sales table:**

**Table

Description automatically generated**

**To retrieve the number of items sold for a particular date**

**Graphical user interface, text, application, email

Description automatically generated**

**To find the top 10 buyers by quantity.**

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Description automatically generated**

**Graphical user interface, table

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* **Challenge Questions**

1. **Challenge Question 1:**

SELECT eventid,pricepaid,ntile(1000) OVER(ORDER BY pricepaid DESC)AS percentile

FROM (SELECT eventid AS eventid,SUM(pricepaid)AS pricepaid FROM sales

GROUP BY eventid)

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**Table

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1. **Challenge Question 2:**

**Sorting by Total Quantity Sold.**

**Query: SELECT eventid, sum(sales.qtysold) as Total\_Sales FROM sales GROUP BY eventid order by sum(sales.qtysold) desc;**

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**Table

Description automatically generated**

**Sorting According to EventId**

**Query: SELECT eventid, sum(sales.qtysold) as Total\_Sales FROM sales GROUP BY eventid order by eventid desc;**

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**Table

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