**Scenario**

The café currently uses a single Amazon Elastic Compute Cloud (Amazon EC2) instance to host its web server, database, and application code.

Meanwhile, the café business has grown. The order history that is stored in the database provides valuable business information that the café staff doesn't want to lose. Martha uses the data for accounting, and Frank looks at it occasionally to plan how many of each dessert type he should bake.

Sofía has additional concerns. The database must be consistently upgraded and patched, and she doesn’t always have time to do these tasks. Also, administering the database is a specialized skill. Training others to do database administration isn’t something that she wants to spend time on. Meanwhile, Sofía is also concerned that the café isn’t doing data backups as often as they should.

Finally, Martha also wants to reduce labour costs that are associated with the technical learning investment that's needed to manage the database.

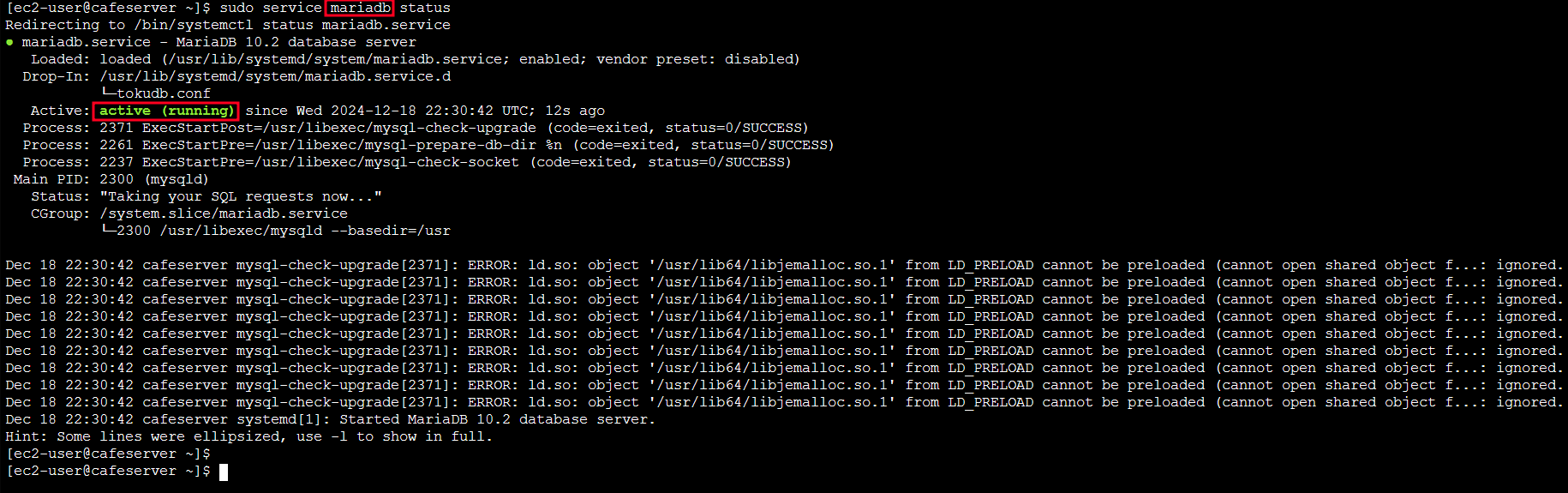
* Create an RDS database instance.
* Export data from a MariaDB database by using mysqldump.
* Connect a SQL client to an RDS database.
* Migrate data from a MariaDB database that runs on an EC2 instance to an RDS database instance.
* Configure a web application to use the new RDS database instance for data storage

**Screenshots**

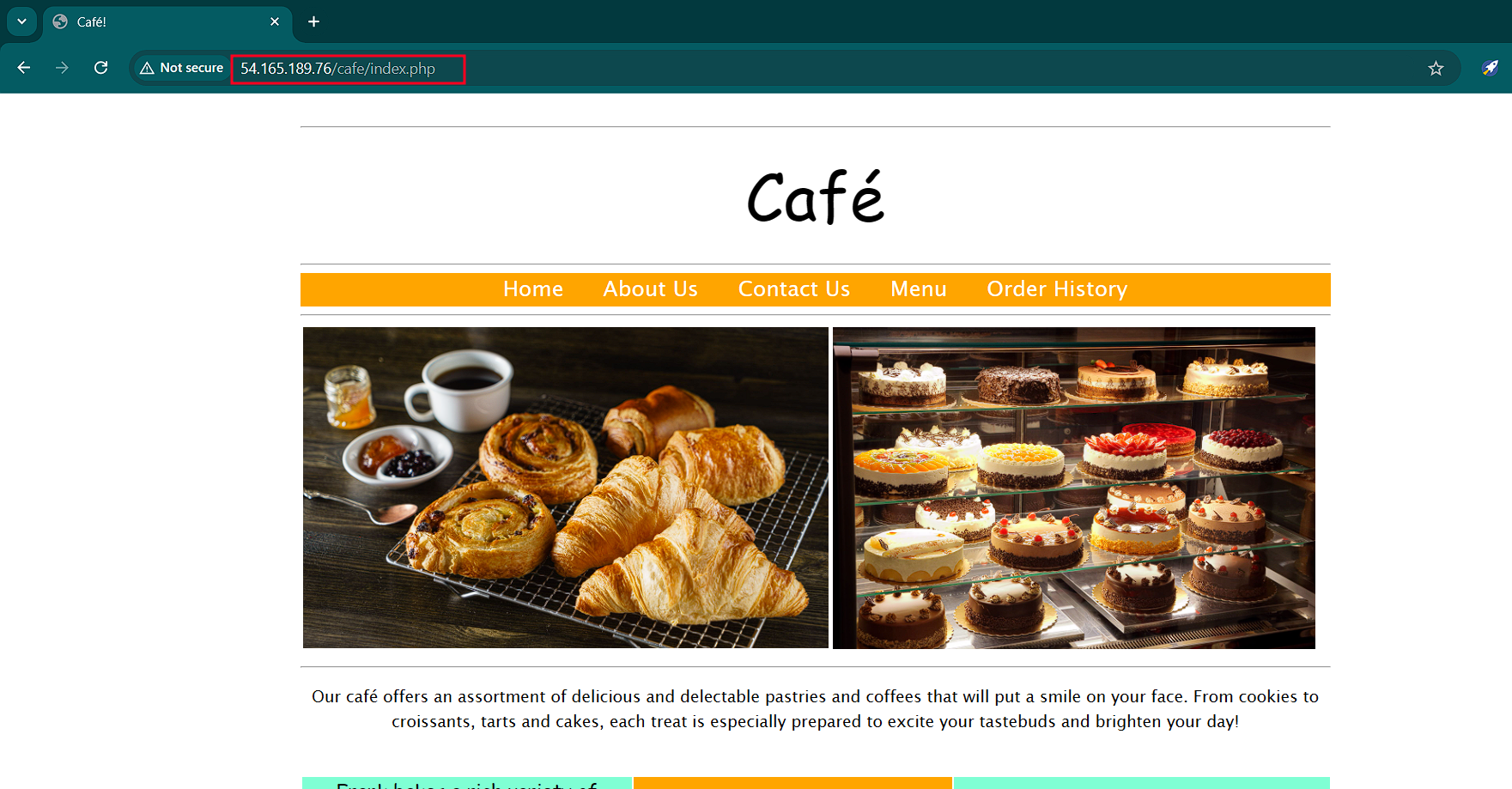
A screenshot of a computer

Description automatically generated

*Created a database instance under Amazon RDS*



*Checking the status of MariaDB inside EC2 instance*



*Webpage details*

A screenshot of a computer program

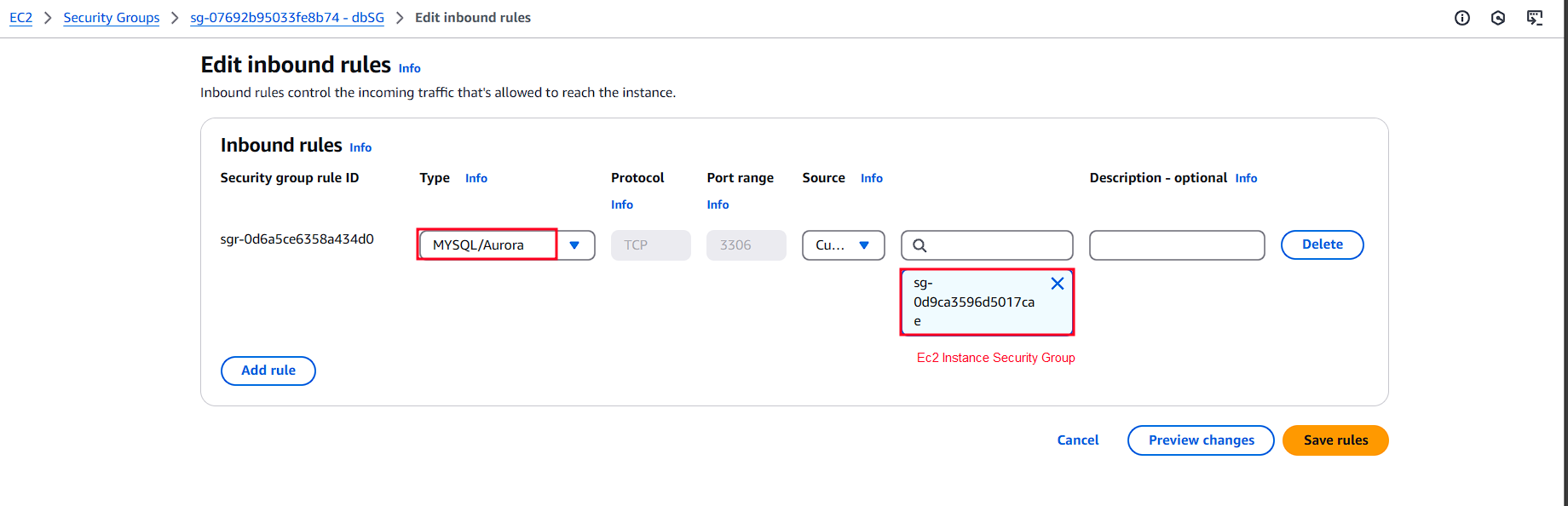
Description automatically generated

*Reviewing Databases and checking the tables inside of café\_db*

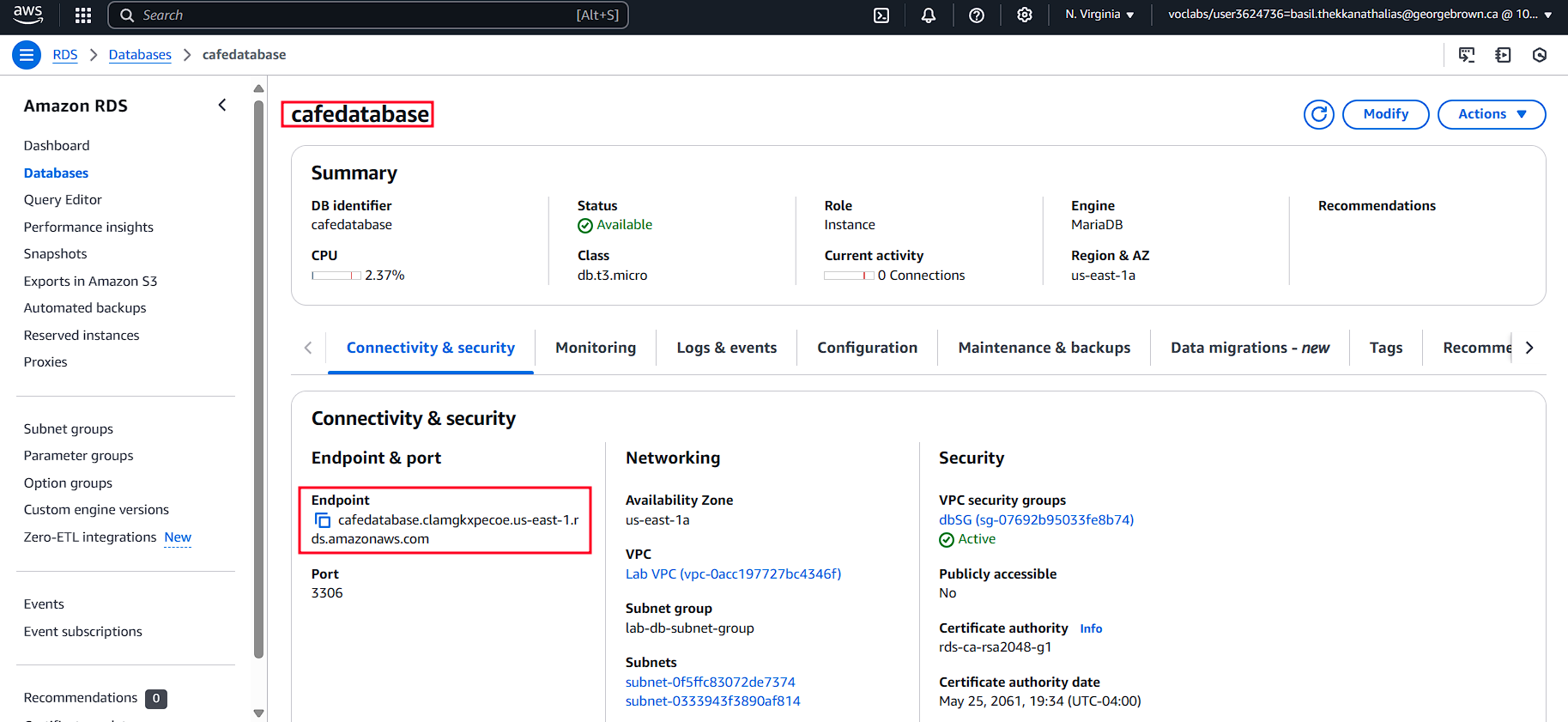
A computer screen with text

Description automatically generated

*Taking backup of the café\_db database*



*Modifying inbound rule to allow port 3306 and giving source as security group of EC2 instance*

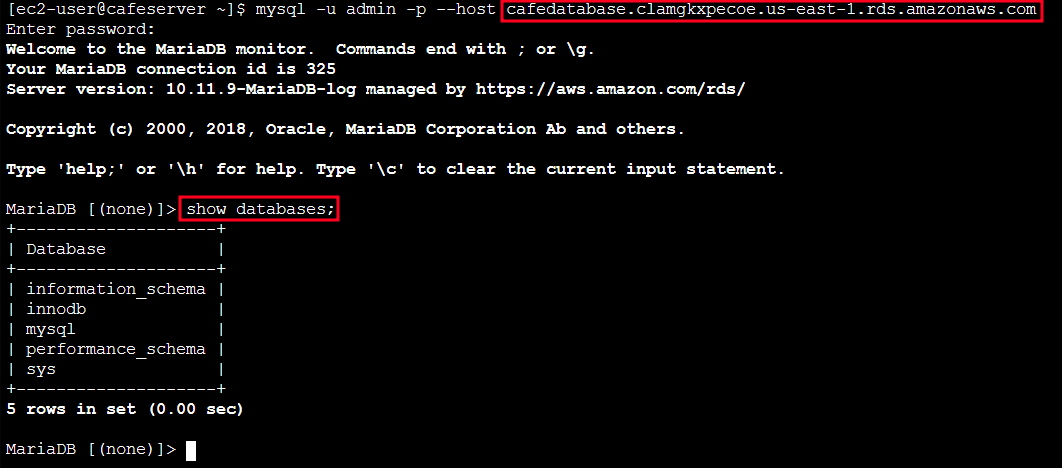


*Copying endpoint of RDS database*

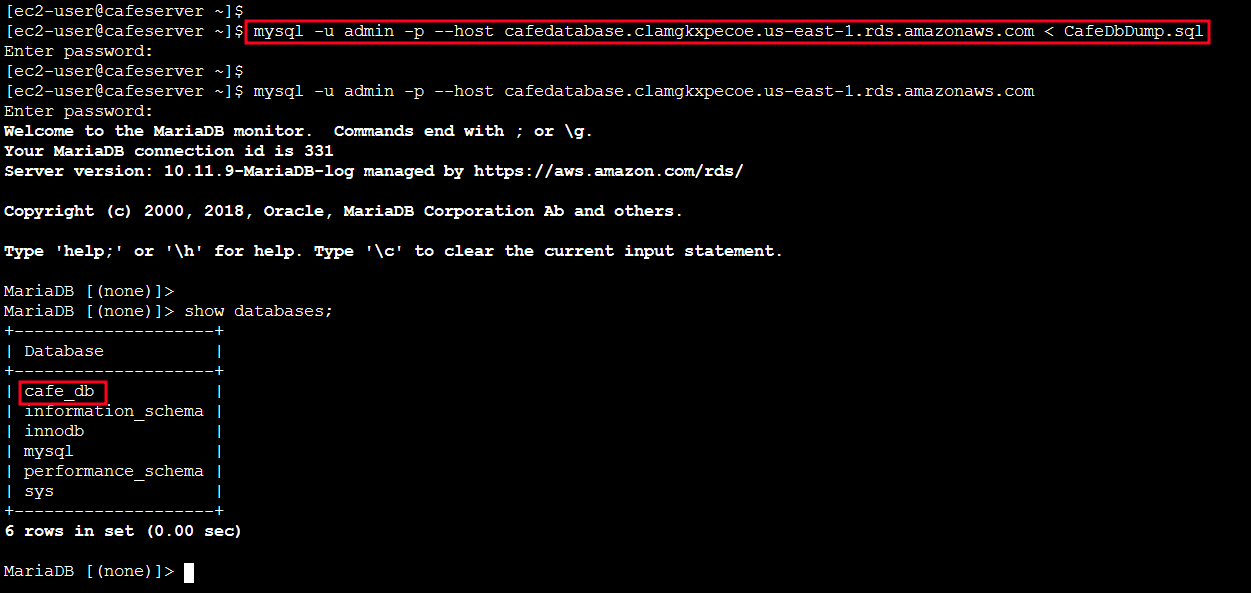
A computer screen with white text

Description automatically generated

*3306 port is open*



*Connecting to RDS database and reviewing the available databases*



*Importing the Café\_db backup to RDS Database*

A screenshot of a computer

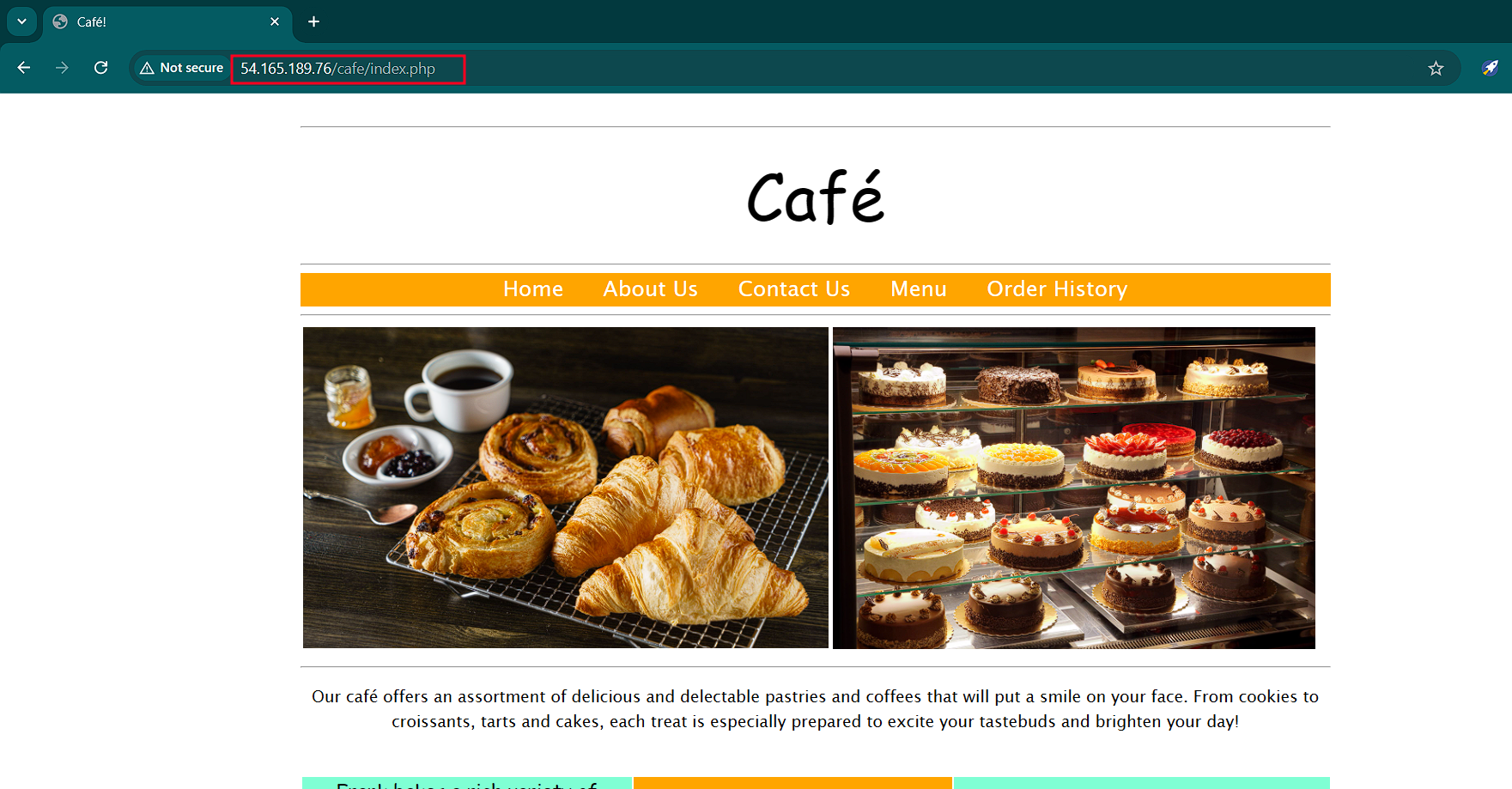
Description automatically generated

*Secrets Manager details*

A computer screen with many small colored lines

Description automatically generated with medium confidence

*Stopping the MariaDB service inside the EC2 instance*



*Accessing the webpage*

A screen shot of a computer

Description automatically generated

*Architecture details before migration*

A diagram of a computer

Description automatically generated with medium confidence

*Architecture details after migration*

**Conclusion**

* Created an RDS database instance
* Exported data from a MariaDB database by using mysqldump
* Connected a SQL client to an RDS database.
* Migrated data from a MariaDB database that runs on an EC2 instance to an RDS database instance
* Configured a web application to use the new RDS database instance for data storage