

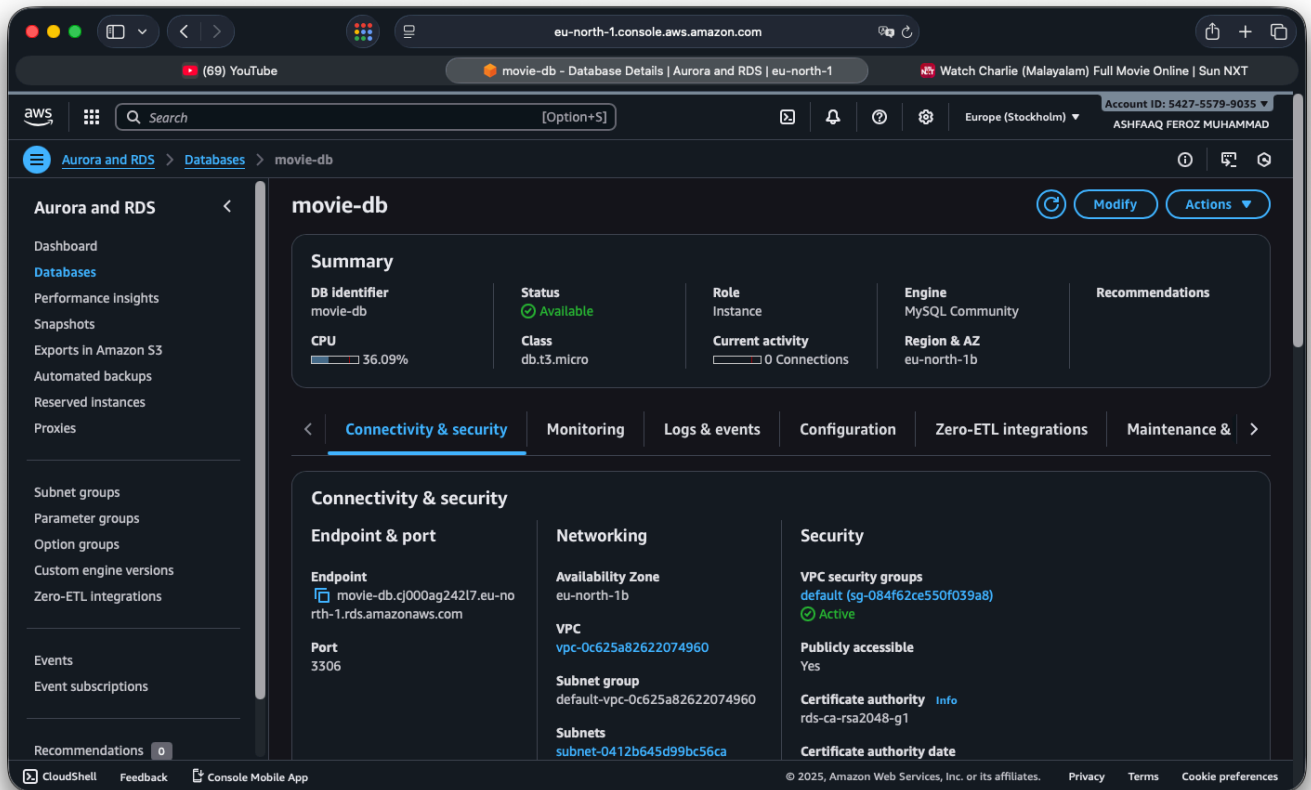
Final Report

Staff-Graded Assignment: AWS RDS – MySQL

Name: Ashfaaq Feroz Muhammad

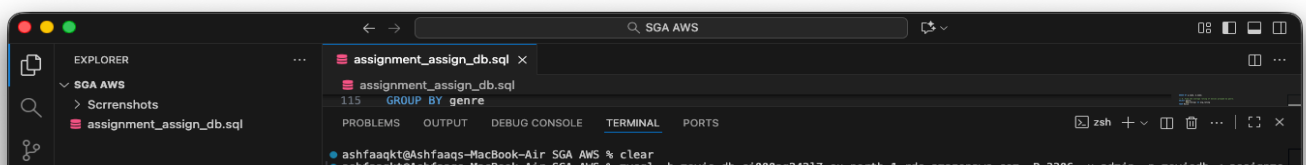
ID: 2023EBCS005

AWS My SQL Database Dashboard:



- Created AWS account and created free tier database.
- Used **Endpoint** to connect File to database.

First General Test if all are connected and working well



- ◇ Entered all the Queries in SQL file and ran a general Test after connecting to the database through terminal.

Query 1:

```
SELECT *  
FROM Movie  
WHERE year > 2000;
```

```
ashfaagkt@Ashfaags-MacBook-Air SGA AWS % mysql -h movie-db.cj000ag242l7.eu-north-1.rds.amazonaws.com -P 3306 -u admin -p  
Enter password:  
Welcome to the MySQL monitor. Commands end with ; or \g.  
Your MySQL connection id is 29  
Server version: 8.0.42 Source distribution  
  
Copyright (c) 2000, 2025, Oracle and/or its affiliates.  
  
Oracle is a registered trademark of Oracle Corporation and/or its  
affiliates. Other names may be trademarks of their respective  
owners.  
  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.  
  
mysql> SELECT *  
-> FROM Movie  
-> WHERE year > 2000;  
ERROR 1046 (3D000): No database selected  
mysql> USE movie;db;  
Reading table information for completion of table and column names  
You can turn off this feature to get a quicker startup with -A  
  
Database changed  
mysql> SELECT *  
-> FROM Movie  
-> WHERE year > 2000;  
+----+-----+-----+-----+-----+-----+  
| id | name      | description          | year | rating | genre      |  
+----+-----+-----+-----+-----+-----+  
| 1  | Inception | A mind-bending sci-fi thriller | 2010 | 8.8    | Science Fiction |  
| 2  | The Dark Knight | Batman faces the Joker | 2008 | 9      | Action          |  
| 3  | Interstellar | Space exploration drama | 2014 | 8.6    | Science Fiction |  
+----+-----+-----+-----+-----+-----+  
3 rows in set (0.281 sec)  
  
mysql>
```

Used the database

The query 1 output.

Query 2:

```
SELECT name
FROM Person
WHERE role = 'Director';
```

```
mysql> SELECT name
-> FROM Person
-> WHERE role = 'Director';
+-----+
| name |
+-----+
| Christopher Nolan |
| James Cameron |
+-----+
2 rows in set (0.686 sec)
```

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Query 3:

```
SELECT *
FROM Movie
WHERE rating > 8.0;
```

```
mysql> SELECT *
-> FROM Movie
-> WHERE rating > 8.0;
```

id	name	description	year	rating	genre
1	Inception	A mind-bending sci-fi thriller	2010	8.8	Science Fiction
2	The Dark Knight	Batman faces the Joker	2008	9	Action
3	Interstellar	Space exploration drama	2014	8.6	Science Fiction
5	The Shawshank Redemption	A tale of hope in a prison	1994	9.3	Drama

4 rows in set (0.291 sec)

```
mysql>
```

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Query 4:

```
SELECT COUNT(*) AS total_movies
FROM Movie;
```

```
mysql> SELECT *
-> FROM Movie
-> WHERE rating > 8.0;
```

id	name	description	year	rating	genre
1	Inception	A mind-bending sci-fi thriller	2010	8.8	Science Fiction
2	The Dark Knight	Batman faces the Joker	2008	9	Action
3	Interstellar	Space exploration drama	2014	8.6	Science Fiction
5	The Shawshank Redemption	A tale of hope in a prison	1994	9.3	Drama

4 rows in set (0.291 sec)

```
mysql>
```

Ln 69, Col 1 (39 selected) Spaces: 4 UTF-8 LF {} SQL Go Live

Query 5:

```
SELECT m.name AS movie_name,  
       p.name AS director_name  
FROM Movie m  
JOIN MoviePerson mp ON m.id = mp.movie_id  
JOIN Person p ON mp.person_id = p.id  
WHERE p.role = 'Director';
```

```
mysql> SELECT m.name AS movie_name,  
->       p.name AS director_name  
-> FROM Movie m  
-> JOIN MoviePerson mp ON m.id = mp.movie_id  
-> JOIN Person p ON mp.person_id = p.id  
-> WHERE p.role = 'Director';
```

movie_name	director_name
Inception	Christopher Nolan
The Dark Knight	Christopher Nolan
Interstellar	Christopher Nolan
Titanic	James Cameron

4 rows in set (0.336 sec)

```
mysql>
```

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Query 6:

```
SELECT p.name AS actor_name,  
       COUNT(mp.movie_id) AS movie_count  
FROM Person p  
JOIN MoviePerson mp ON p.id = mp.person_id  
WHERE p.role IN ('Actor', 'Actress')  
GROUP BY p.id, p.name  
ORDER BY movie_count DESC;
```

```
mysql> SELECT p.name AS actor_name,  
->       COUNT(mp.movie_id) AS movie_count  
-> FROM Person p  
-> JOIN MoviePerson mp ON p.id = mp.person_id  
-> WHERE p.role IN ('Actor', 'Actress')  
-> GROUP BY p.id, p.name  
-> ORDER BY movie_count DESC;
```

actor_name	movie_count
Anne Hathaway	2
Leonardo DiCaprio	1
Christian Bale	1
Morgan Freeman	1
Kate Winslet	1
Tim Robbins	1
Matthew McConaughey	1

7 rows in set (0.250 sec)

```
mysql>
```

Ln 92, Col 27 (212 selected) Spaces: 4 UTF-8 LF () SQL Go Live

Query 7:

```
SELECT name, rating  
FROM Movie  
ORDER BY rating DESC  
LIMIT 2;
```

```
mysql> SELECT name, rating  
-> FROM Movie  
-> ORDER BY rating DESC  
-> LIMIT 2;
```

name	rating
The Shawshank Redemption	9.3
The Dark Knight	9

2 rows in set (0.257 sec)

```
mysql>
```

Ln 98, Col 9 (60 selected) Spaces: 4 UTF-8 LF () SQL Go Live

Query 8:

```
SELECT p.name AS actor_name,  
       p.birth_year,  
       m.name AS movie_name  
FROM Person p  
JOIN MoviePerson mp ON p.id = mp.person_id  
JOIN Movie m ON mp.movie_id = m.id  
WHERE p.role IN ('Actor', 'Actress')  
       AND p.birth_year < 1975  
ORDER BY p.name, m.name;
```

```
mysql> SELECT p.name AS actor_name,  
->       p.birth_year,  
->       m.name AS movie_name  
-> FROM Person p  
-> JOIN MoviePerson mp ON p.id = mp.person_id  
-> JOIN Movie m ON mp.movie_id = m.id  
-> WHERE p.role IN ('Actor', 'Actress')  
->       AND p.birth_year < 1975  
-> ORDER BY p.name, m.name;  


| actor_name          | birth_year | movie_name               |
|---------------------|------------|--------------------------|
| Christian Bale      | 1974       | The Dark Knight          |
| Leonardo DiCaprio   | 1974       | Inception                |
| Matthew McConaughey | 1969       | Interstellar             |
| Morgan Freeman      | 1937       | The Shawshank Redemption |
| Tim Robbins         | 1958       | The Shawshank Redemption |

  
5 rows in set (0.319 sec)  
  
mysql>
```

Ln 110, Col 1 (258 selected) Spaces: 4 UTF-8 LF () SQL Go Live

Query 9:

```
SELECT genre,  
       AVG(rating) AS avg_rating  
FROM Movie  
GROUP BY genre  
ORDER BY avg_rating DESC;
```

```
mysql> SELECT genre,  
->       AVG(rating) AS avg_rating  
-> FROM Movie  
-> GROUP BY genre  
-> ORDER BY avg_rating DESC;  


| genre           | avg_rating        |
|-----------------|-------------------|
| Drama           | 9.300000190734863 |
| Action          | 9                 |
| Science Fiction | 8.700000286102295 |
| Romance         | 7.900000095367432 |

  
4 rows in set (0.218 sec)  
  
mysql>
```

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Query 10:

```
SELECT DISTINCT p2.name AS actor_name
FROM Person p1
JOIN MoviePerson mp1 ON p1.id = mp1.person_id
JOIN Movie m ON mp1.movie_id = m.id
JOIN MoviePerson mp2 ON m.id = mp2.movie_id
JOIN Person p2 ON mp2.person_id = p2.id
WHERE p1.role = 'Director'
      AND p1.name = 'Christopher Nolan'
      AND p2.role IN ('Actor', 'Actress');
```

```
mysql> SELECT DISTINCT p2.name AS actor_name
-> FROM Person p1
-> JOIN MoviePerson mp1 ON p1.id = mp1.person_id
-> JOIN Movie m ON mp1.movie_id = m.id
-> JOIN MoviePerson mp2 ON m.id = mp2.movie_id
-> JOIN Person p2 ON mp2.person_id = p2.id
-> WHERE p1.role = 'Director'
->       AND p1.name = 'Christopher Nolan'
->       AND p2.role IN ('Actor', 'Actress');
+-----+
| actor_name |
+-----+
| Leonardo DiCaprio |
| Anne Hathaway    |
| Christian Bale    |
| Matthew McConaughey |
+-----+
4 rows in set (0.291 sec)

mysql>
```

Ln 127, Col 39 (320 selected) Spaces: 4 UTF-8 LF () SQL ⚙️ Go Live 🔔

THE END