

School of Computer Science, Engineering and Applications(SCSEA)

B.C.A. TY (SCSEA)

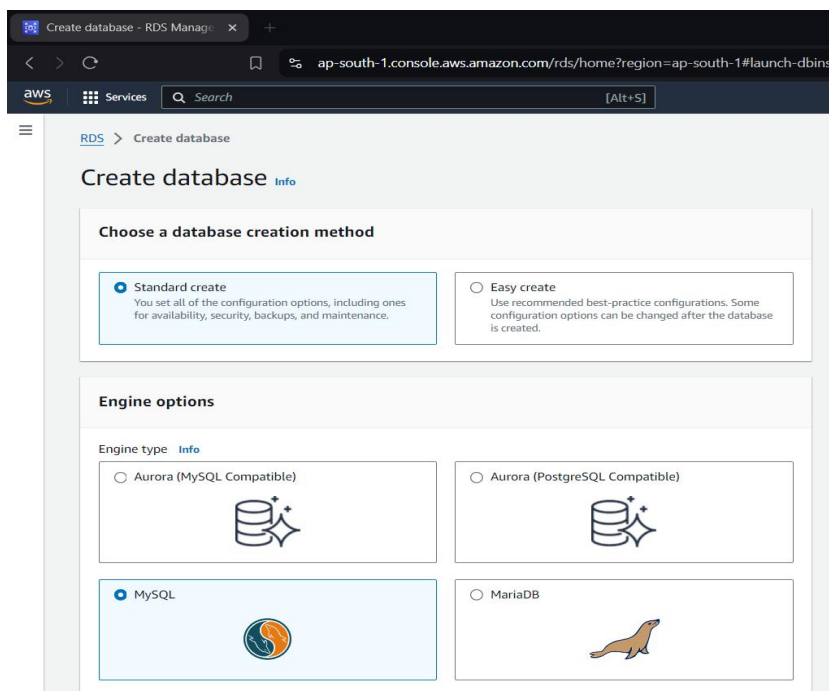
Subject: Advance Cloud Computing(ACC)

Name of the Student: Shrushti Krishna Shrivastav

PRN: 20220801024

Title of Practicle : AWS RDS Setup & Insertion of Data

STEP1: Create RDS



Create database - RDS Management Console

ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#launch-database

Create database

Choose a database creation method

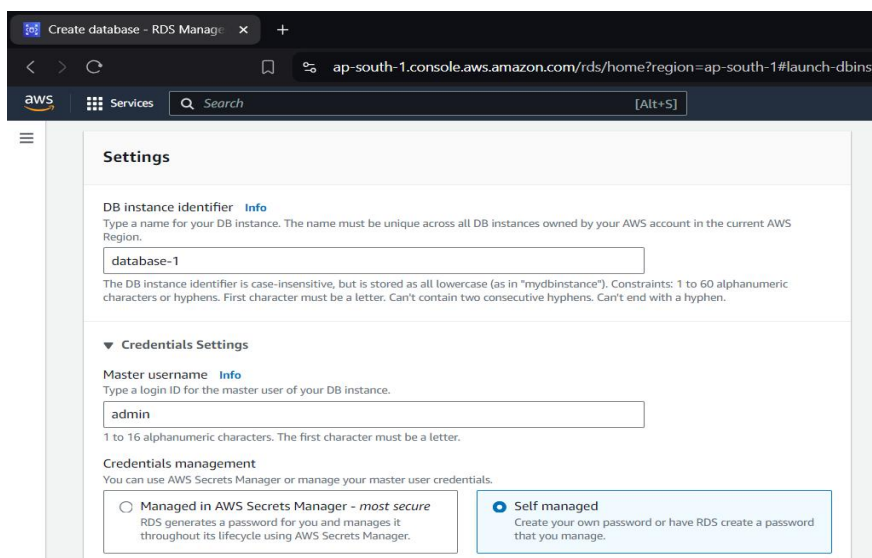
- ☒ Standard create
You set all of the configuration options, including ones for availability, security, backups, and maintenance.
- ☐ Easy create
Use recommended best-practice configurations. Some configuration options can be changed after the database is created.

Engine options

Engine type

- ☐ Aurora (MySQL Compatible)
- ☐ Aurora (PostgreSQL Compatible)
- ☒ MySQL
- ☐ MariaDB

Name the database instance



Create database - RDS Management Console

ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#launch-database

Settings

DB instance identifier

Type a name for your DB instance. The name must be unique across all DB instances owned by your AWS account in the current AWS Region.

database-1

The DB instance identifier is case-insensitive, but is stored as all lowercase (as in "mydbinstance"). Constraints: 1 to 60 alphanumeric characters or hyphens. First character must be a letter. Can't contain two consecutive hyphens. Can't end with a hyphen.

▼ Credentials Settings

Master username

Type a login ID for the master user of your DB instance.

admin

1 to 16 alphanumeric characters. The first character must be a letter.

Credentials management

You can use AWS Secrets Manager or manage your master user credentials.

- ☐ Managed in AWS Secrets Manager - most secure
RDS generates a password for you and manages it throughout its lifecycle using AWS Secrets Manager.
- ☒ Self managed
Create your own password or have RDS create a password that you manage.



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Password

Credentials management
You can use AWS Secrets Manager or manage your master user credentials.

☐ **Managed in AWS Secrets Manager - *most secure***
RDS generates a password for you and manages it throughout its lifecycle using AWS Secrets Manager.

☒ **Self managed**
Create your own password or have RDS create a password that you manage.

☐ **Auto generate password**
Amazon RDS can generate a password for you, or you can specify your own password.

Master password [Info](#)

.....

Password strength **Weak**

Minimum constraints: At least 8 printable ASCII characters. Can't contain any of the following symbols: / ' " @

Confirm master password [Info](#)

.....

Instance configuration

Class(t3.micro)

Create database - RDS Manager

ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#la

aws Services Search [Alt+S]

.....

Password strength **Weak**

Minimum constraints: At least 8 printable ASCII characters. Can't contain any of the following symbols: / ' " @

Confirm master password [Info](#)

.....

Instance configuration
The DB instance configuration options below are limited to those supported by the engine that you selected above.

DB instance class [Info](#)

▼ Hide filters

☐ Show instance classes that support Amazon RDS Optimized Writes [Info](#)
Amazon RDS Optimized Writes improves write throughput by up to 2x at no additional cost.

☐ Include previous generation classes

☐ Standard classes (includes m classes)

☐ Memory optimized classes (includes r and x classes)

☒ Burstable classes (includes t classes)

db.t3.micro
2 vCPUs 1 GIB RAM Network: Up to 2,085 Mbps

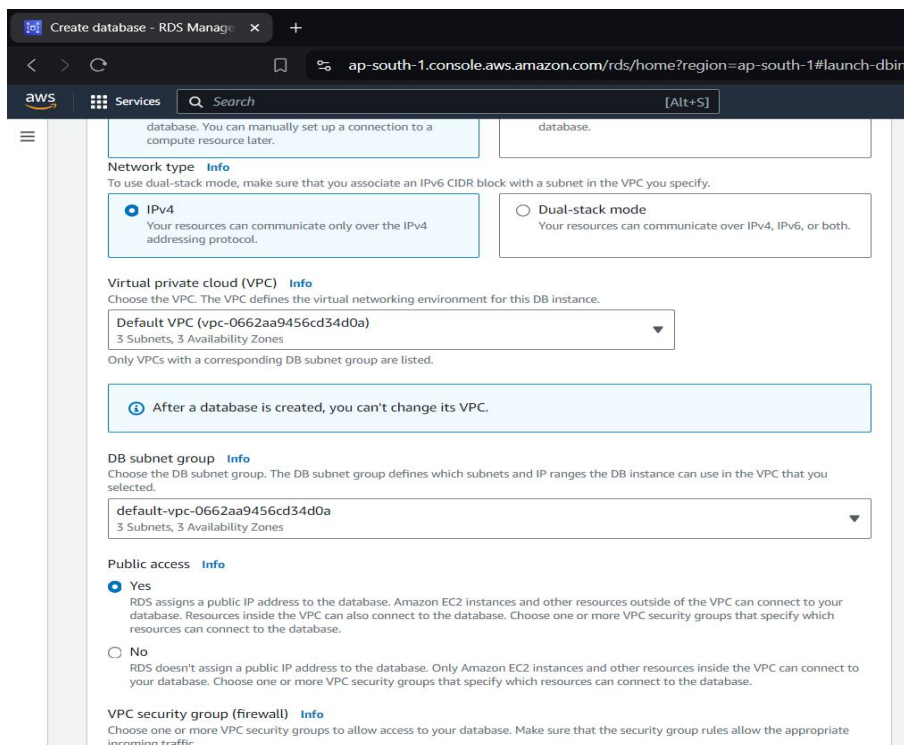
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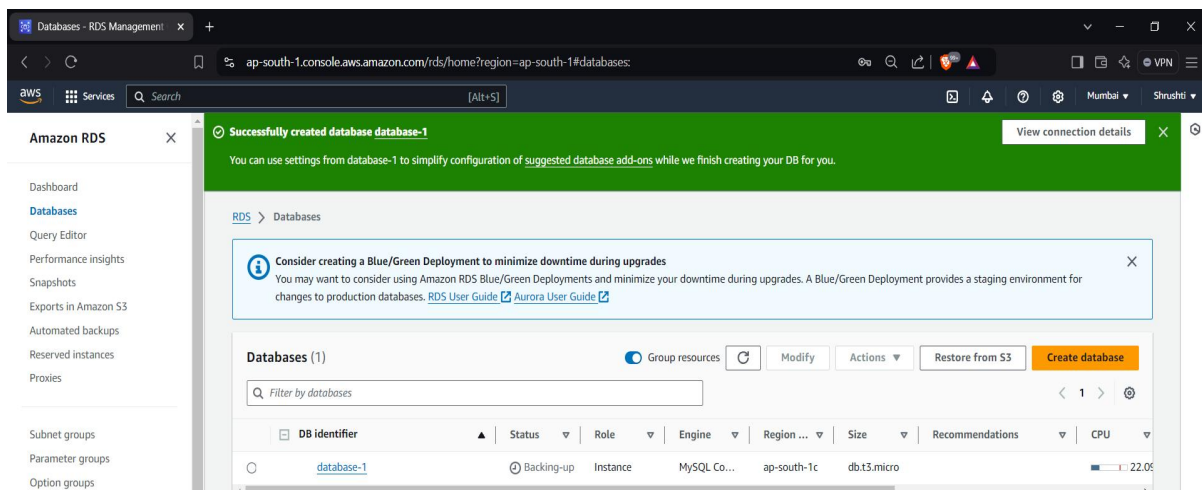
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Public access (yes)



The screenshot shows the 'Create database' page in the AWS RDS console. The 'Public access' option is selected under the 'Public access' section, indicating that the database will have a public IP address. Other visible options include 'Network type' (IPv4 selected), 'Virtual private cloud (VPC)' (Default VPC selected), and 'DB subnet group' (default-vpc-0662aa9456cd34d0a selected).

Created



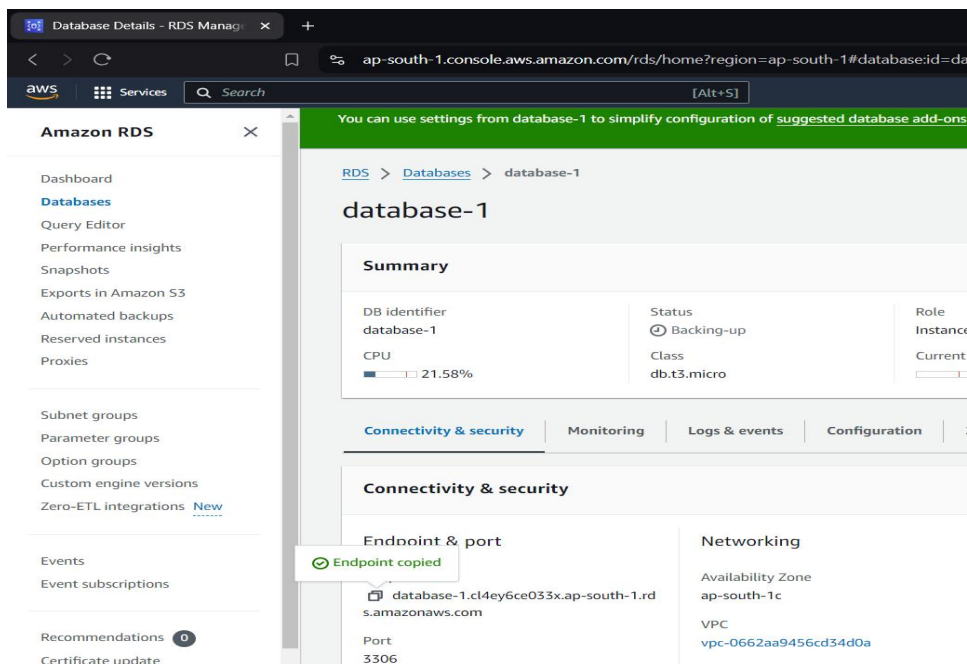
The screenshot shows the AWS RDS console after a database has been created. A green banner at the top states 'Successfully created database database-1'. Below this, a table lists the database instance 'database-1' with details such as 'MySQL Co...', 'ap-south-1c', and 'db.t3.micro'.

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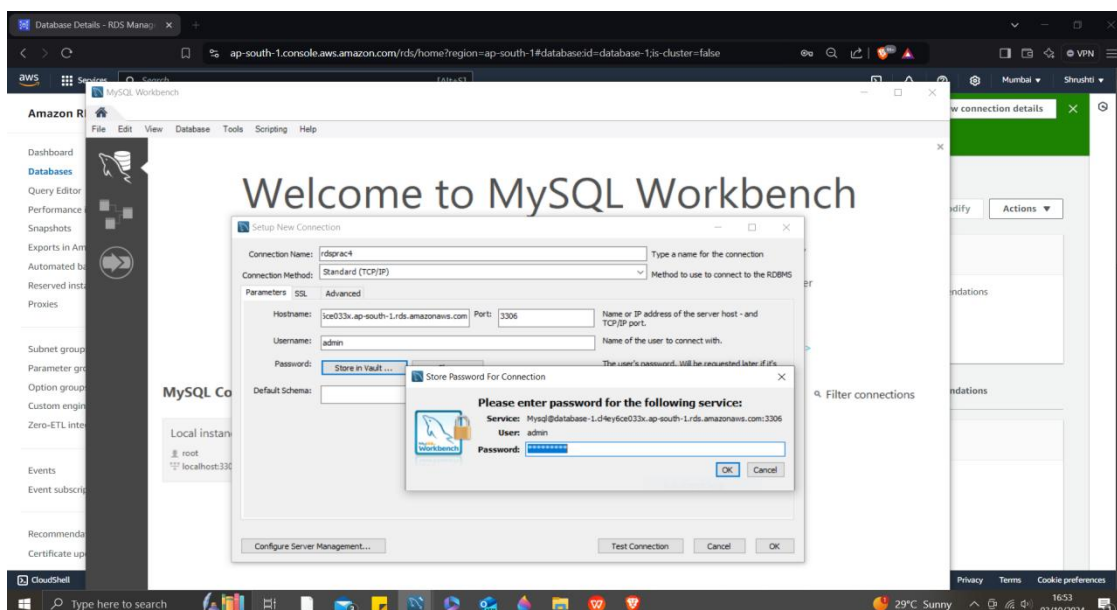
Name of the Student: Shrushti Krishna Shrivastav **PRN:** 20220801024

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STEP2: Copy the endpoint of database



STEP3: Open mysql workbench and create connection

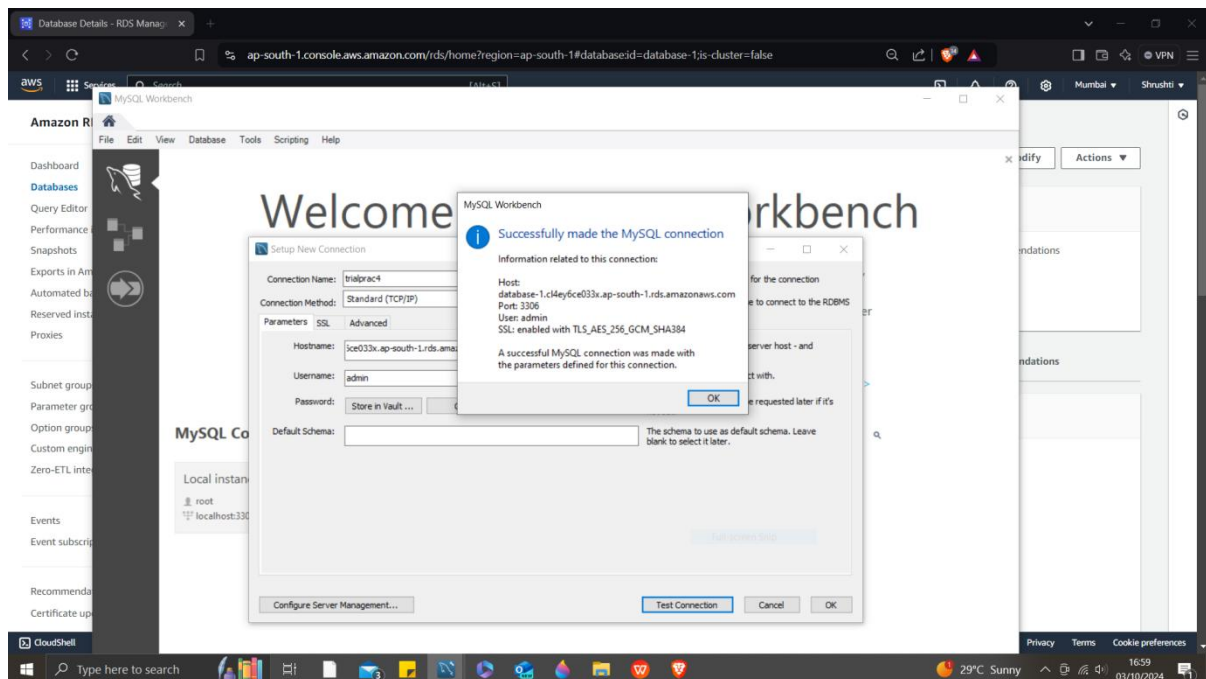


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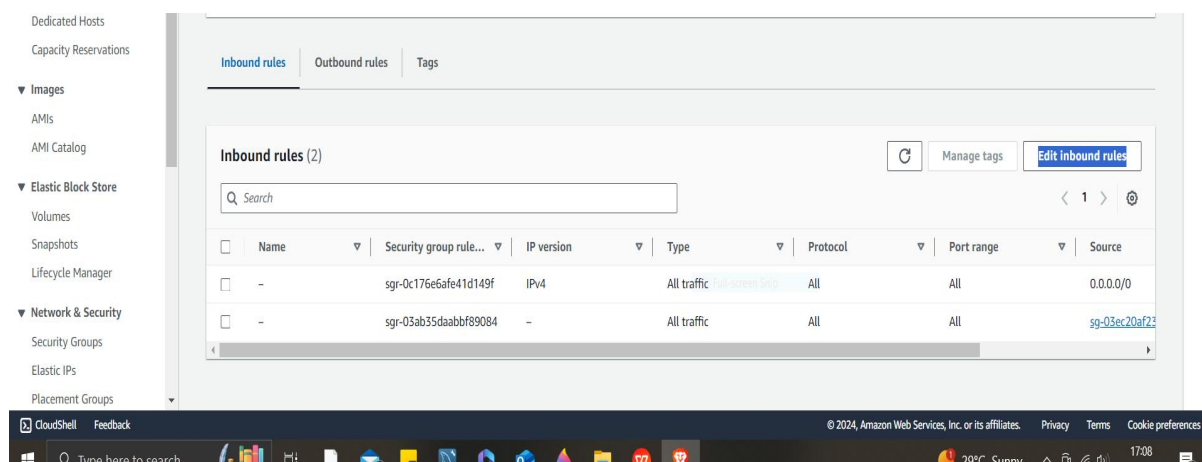
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STEP4: CHANGES

If connection fails then do the changes in (rds) database security group and change inbound rule to accept all traffic from ipv4 and try again

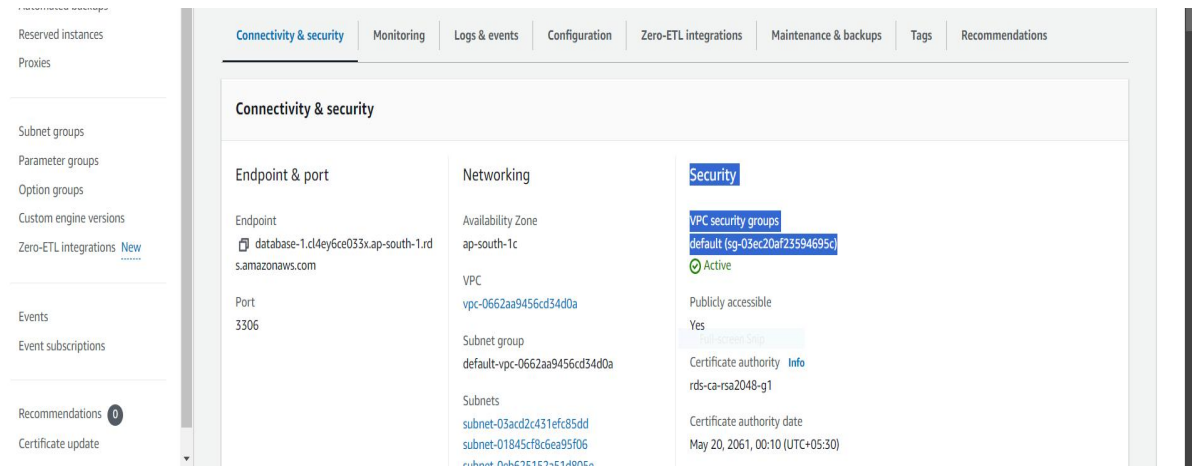


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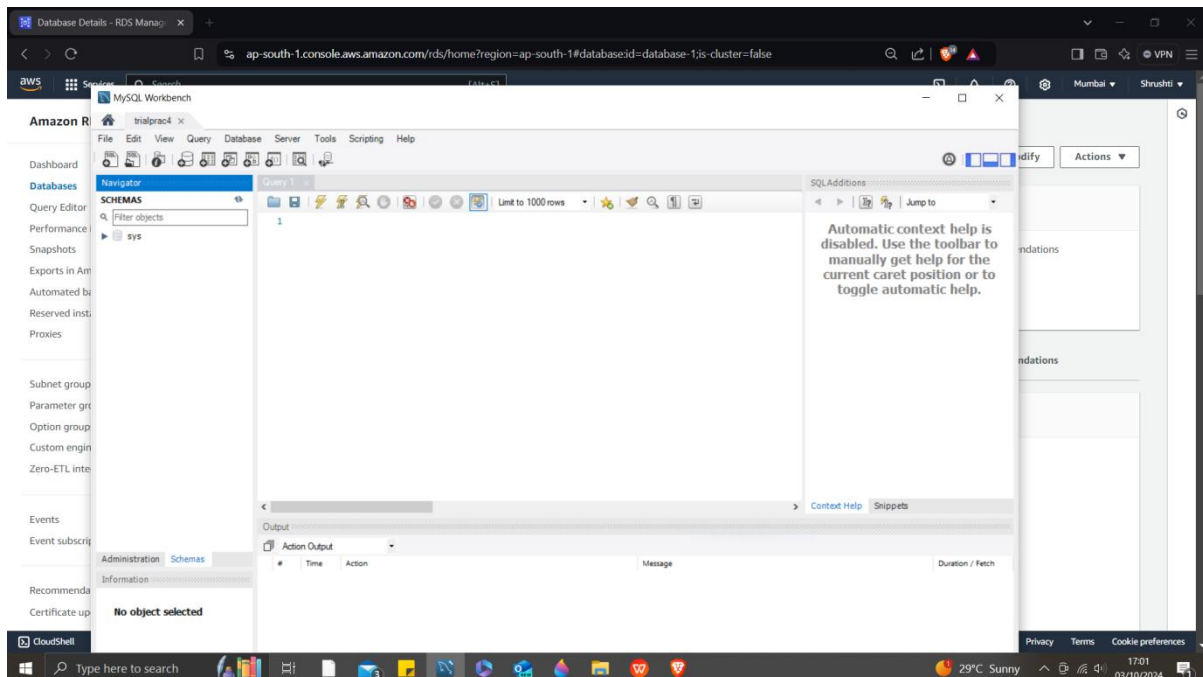
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STEP 5: Try again--



Connected.

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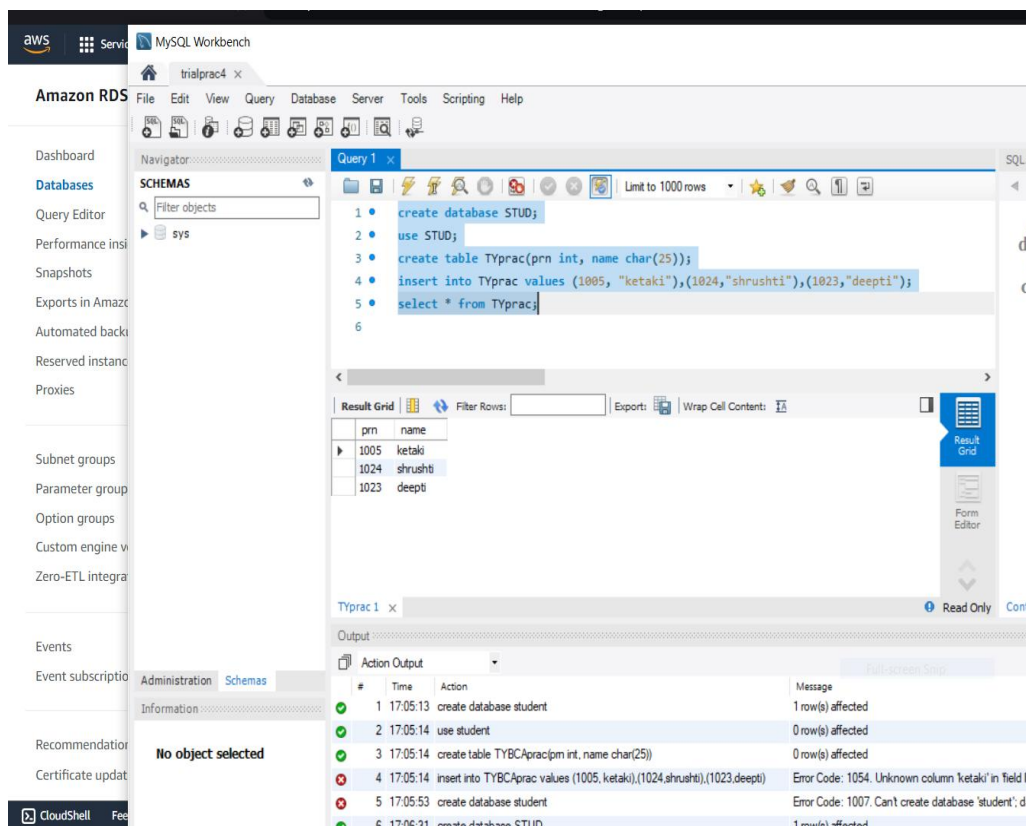
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STEP6: data insertion



The screenshot shows the MySQL Workbench interface with the following SQL queries executed:

```

1 create database STUD;
2 use STUD;
3 create table TYprac(prn int, name char(25));
4 insert into TYprac values (1005, "ketaki"),(1024,"shrushti"),(1023,"deepti");
5 select * from TYprac;
6

```

The Result Grid shows the following data:

prn	name
1005	ketaki
1024	shrushti
1023	deepti

The Action Output shows the following results:

#	Time	Action	Message
1	17:05:13	create database student	1 row(s) affected
2	17:05:14	use student	0 row(s) affected
3	17:05:14	create table TYBCAprac(prn int, name char(25))	0 row(s) affected
4	17:05:14	insert into TYBCAprac values (1005, ketaki),(1024,shrushti),(1023,deepti)	Error Code: 1054. Unknown column 'ketaki' in field list
5	17:05:53	create database student	Error Code: 1007. Can't create database 'student'; database already exists
6	17:06:31	create database STUD	1 row(s) affected

Done.