AWS RDS practical

STEP 1: Open RDS Console

1. Go to AWS Console
2. Search **RDS**
3. Click **Amazon RDS**

STEP 2: Click “Create database”

You will now see database engine and configuration options.

STEP 3: Choose Engine

1. Under *Engine options* → select **MySQL**
2. Engine Version: Keep default (recommended)

STEP 4: Choose Template

You don’t have free tier so choose:

- **Production?** → NO (expensive)
- **Dev/Test?** → Still expensive
- **Free tier** → Select this (even without free tier, still creates smallest instance)

This avoids higher instance cost.

STEP 5: Settings

Fill the following:

Field	Value
DB instance identifier	`mydb-lab`
Master username	`admin`
Master password	create your password

Confirm password.

STEP 6: Choose DB Instance Size

Under **DB instance class**:

- Change to: **Burstable classes (t classes)**
- Select: **db.t3.micro**

⚠️ This keeps cost lowest.

STEP 7: Storage

- Storage type: **gp3**
- Allocated storage: **20 GiB**
- Disable storage autoscaling (to avoid extra cost)

STEP 8: Connectivity

✔ Virtual Private Cloud (VPC)

- Choose: **Default VPC**

✔ Public access

Choose: **Yes**
So you can connect from your laptop.

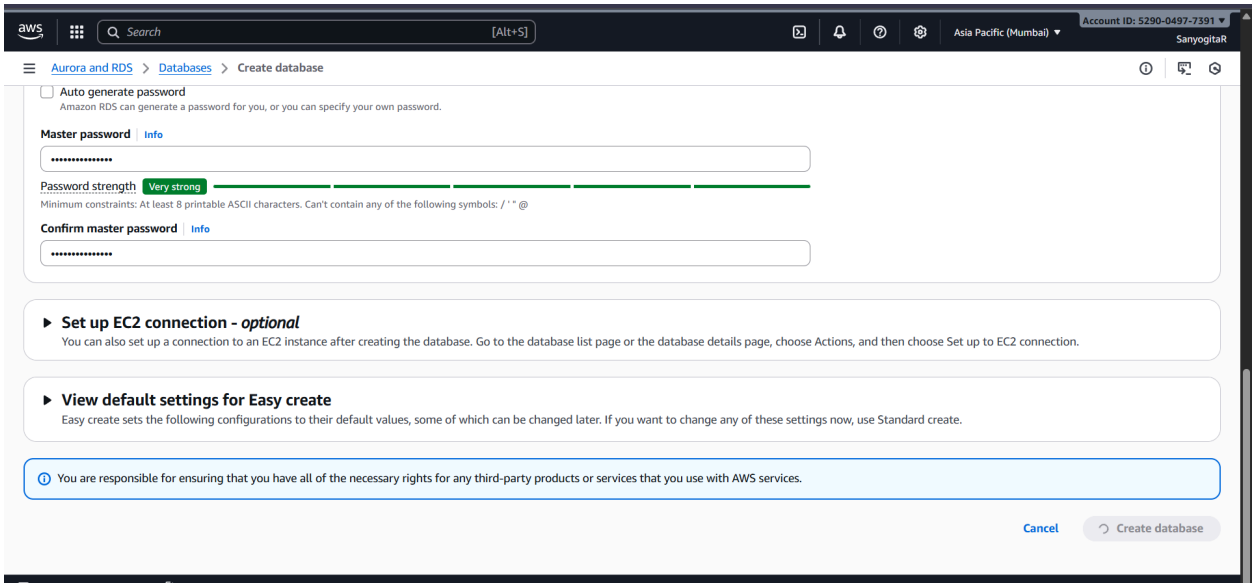
✔ Existing VPC security group

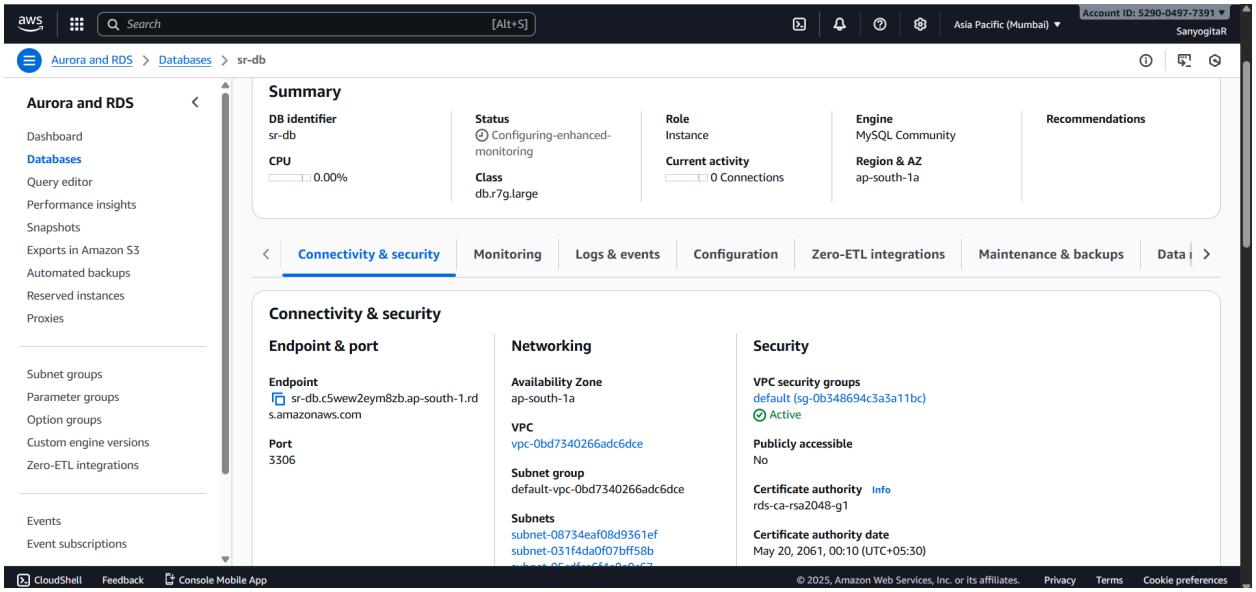
Choose:

- **Create new** (recommended) OR select an existing SG.

Name example: `rds-sg-lab`

This SG controls inbound rules.




Search [Alt+S]
Asia Pacific (Mumbai)
Account ID: 5290-0497-7391
SanyogitaR
Aurora and RDS > Databases > sr-db
Aurora and RDS
Dashboard
Databases
Query editor
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Reserved instances
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Events
Event subscriptions
Summary
DB identifier
sr-db
Status
Configuring-enhanced-monitoring
Role
Instance
Engine
MySQL Community
Recommendations
CPU
0.00%
Class
db.r7g.large
Current activity
0 Connections
Region & AZ
ap-south-1a
Connectivity & security
Monitoring
Logs & events
Configuration
Zero-ETL integrations
Maintenance & backups
Connectivity & security
Endpoint & port
Endpoint
sr-db.c5wew2eym8zb.ap-south-1.rds.amazonaws.com
Port
3306
Networking
Availability Zone
ap-south-1a
VPC
vpc-0bd7340266adc6dce
Subnet group
default-vpc-0bd7340266adc6dce
Subnets
subnet-08734eaf08d9361ef
subnet-031f4da0f07bff58b
Security
VPC security groups
default (sg-0b348694c3a3a11bc)
Active
Publicly accessible
No
Certificate authority Info
rds-ca-rsa2048-g1
Certificate authority date
May 20, 2061, 00:10 (UTC+05:30)
CloudShell
Feedback
Console Mobile App
© 2025, Amazon Web Services, Inc. or its affiliates.
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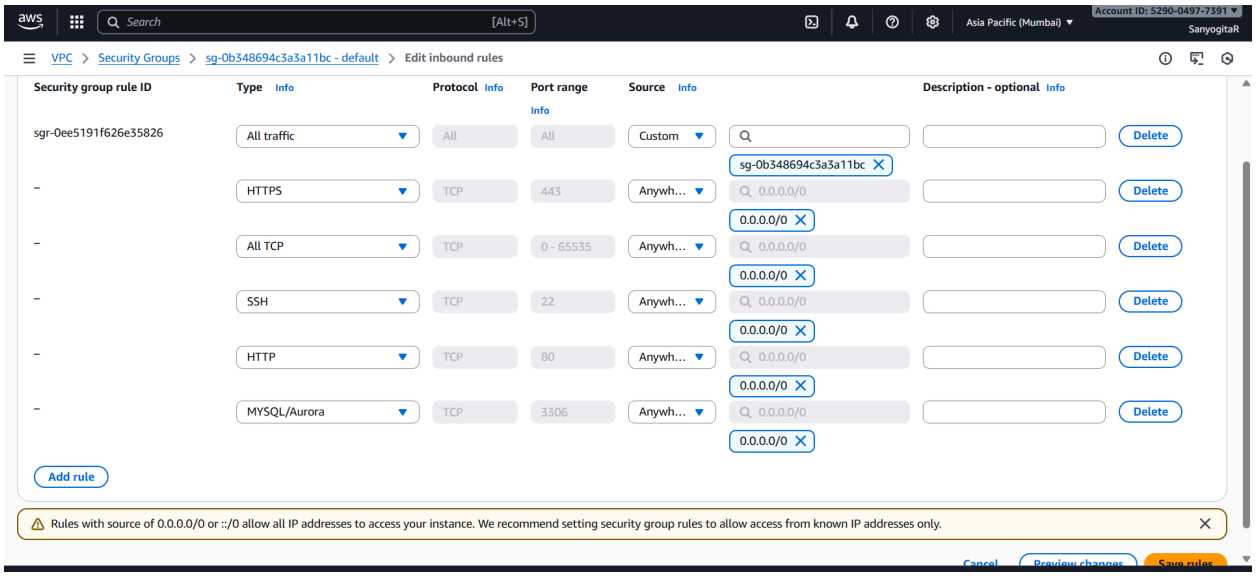
Search [Alt+S]
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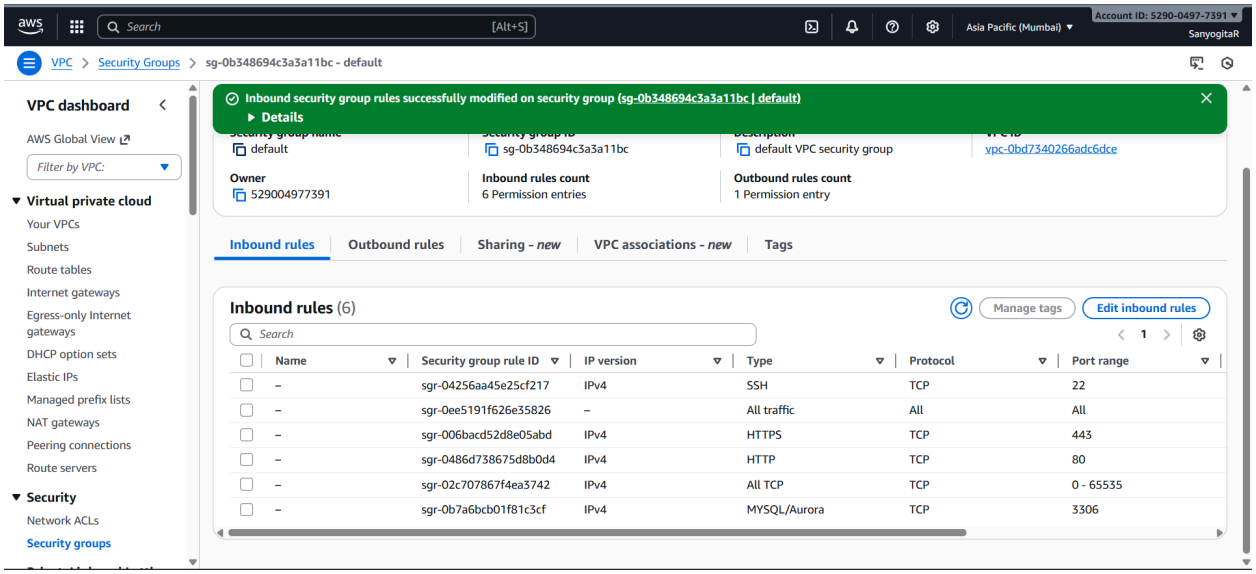
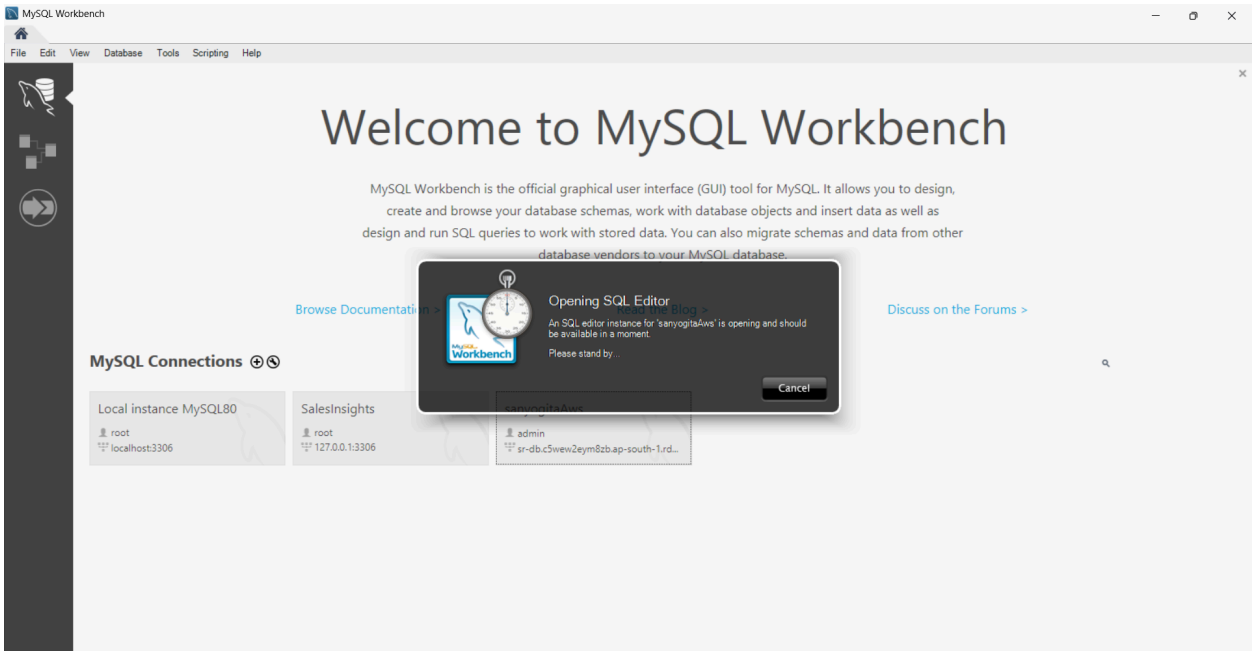
VPC > Security Groups > sg-0b348694c3a3a11bc - default > Edit inbound rules
Security group rule ID
Type Info
Protocol Info
Port range Info
Source Info
Description - optional Info
sgr-0ee5191f626e35826
All traffic
All
All
Custom
sg-0b348694c3a3a11bc
Delete
HTTPS
TCP
443
Anywh...
0.0.0.0/0
All TCP
TCP
0 - 65535
SSH
TCP
22
HTTP
TCP
80
MYSQL/Aurora
TCP
3306
Add rule
Rules with source of 0.0.0.0/0 or ::/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.
Cancel
Preview changes
Save rules

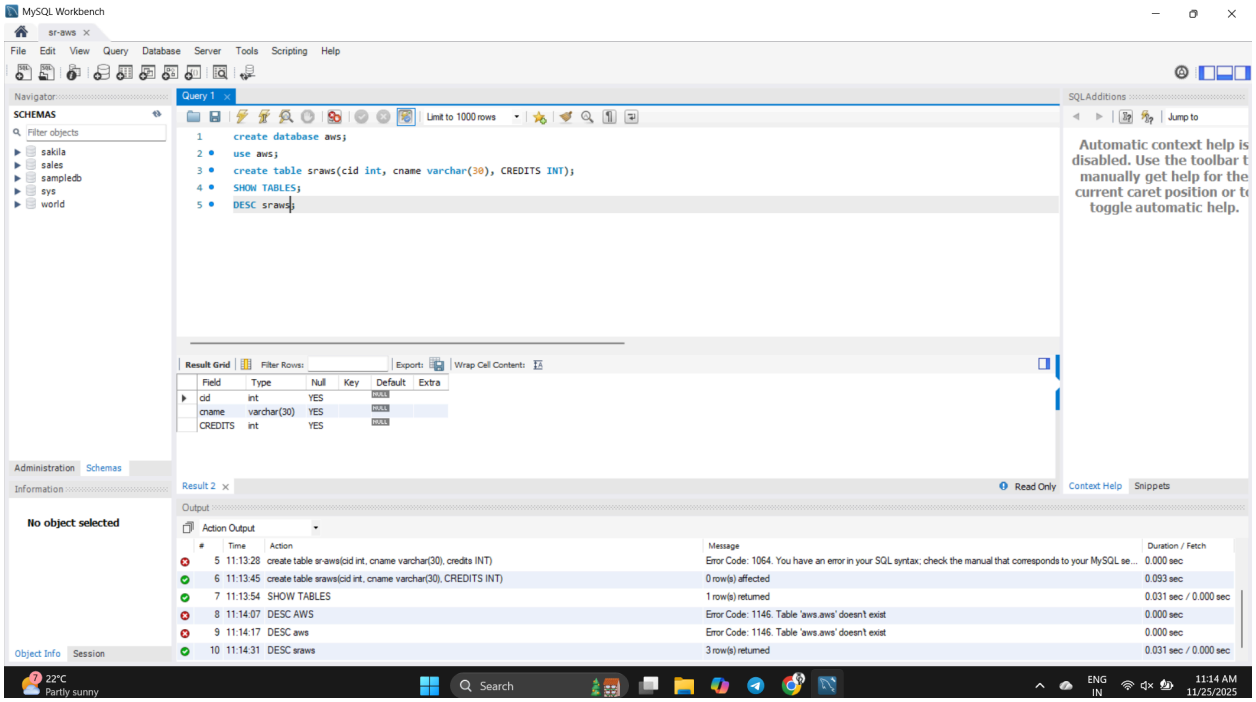


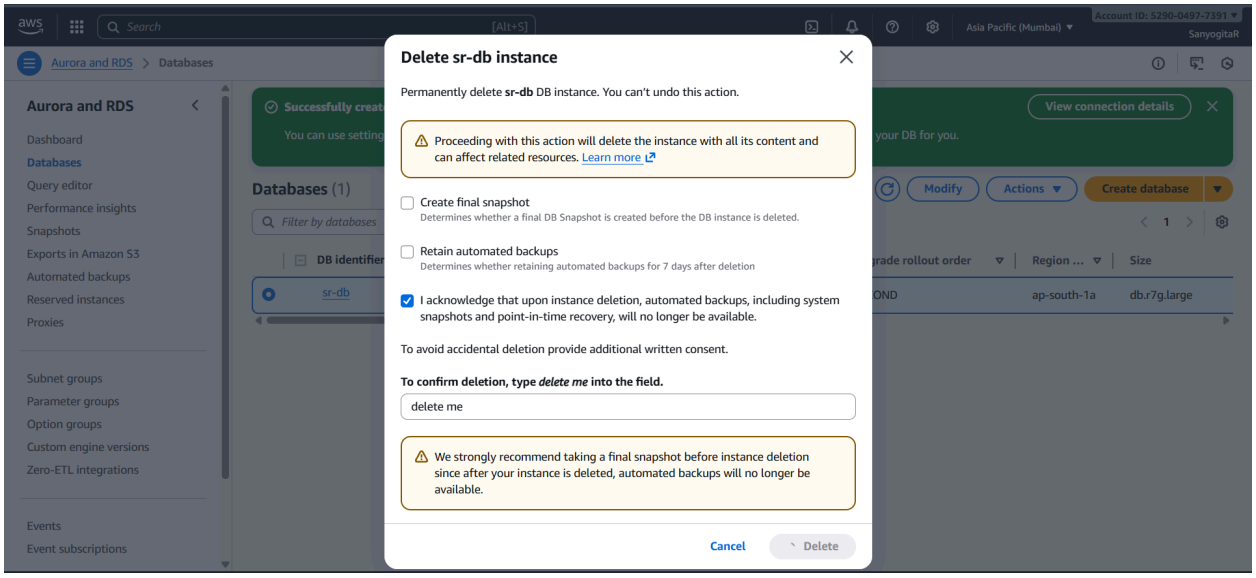
STEP 9: Additional configs

Scroll down:

- Initial database name → `labdb`
- Port → **3306** (default)
- Leave everything else default




MySQL Workbench
sr-aws
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
sakila
sales
sampledb
sys
world
Query 1
Limit to 1000 rows
1 create database aws;
2 use aws;
3 create table sraws(cid int, cname varchar(30), CREDITS INT);
4 SHOW TABLES;
5 DESC sraws;
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar t manually get help for the current caret position or t toggle automatic help.
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
Field Type Null Key Default Extra
cid int YES NULL
cname varchar(30) YES NULL
CREDITS int YES NULL
Administration Schemas
Information
No object selected
Object Info Session
Result 2
Read Only
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
5 11:13:28 create table sr-aws(cid int, cname varchar(30), credits INT) Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL se... 0.000 sec
6 11:13:45 create table sraws(cid int, cname varchar(30), CREDITS INT) 0 row(s) affected 0.093 sec
7 11:13:54 SHOW TABLES 1 row(s) returned 0.031 sec / 0.000 sec
8 11:14:07 DESC AWS Error Code: 1146. Table 'aws.aws' doesn't exist 0.000 sec
9 11:14:17 DESC aws Error Code: 1146. Table 'aws.aws' doesn't exist 0.000 sec
10 11:14:31 DESC sraws 3 row(s) returned 0.031 sec / 0.000 sec
22°C
Partly sunny
Search
ENG
IN
11:14 AM
11/25/2025


aws
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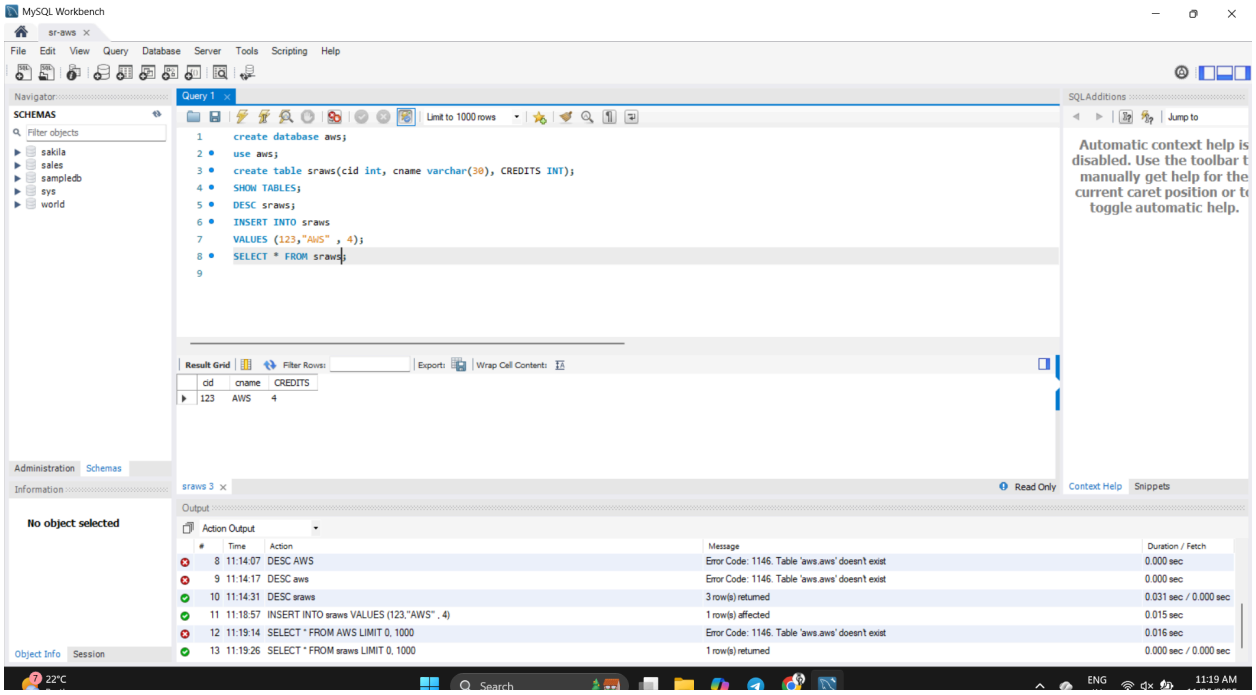
Events
Event subscriptions
Databases (1)
Filter by databases
DB identifier
sr-db
View connection details
Modify
Actions
Create database
Region ...
Size
ap-south-1a
db.r7g.large
Delete sr-db instance
Permanently delete sr-db DB instance. You can't undo this action.
Proceeding with this action will delete the instance with all its content and can affect related resources. Learn more
Create final snapshot
Determines whether a final DB Snapshot is created before the DB instance is deleted.
Retain automated backups
Determines whether retaining automated backups for 7 days after deletion
I acknowledge that upon instance deletion, automated backups, including system snapshots and point-in-time recovery, will no longer be available.
To avoid accidental deletion provide additional written consent.
To confirm deletion, type delete me into the field.
delete me
We strongly recommend taking a final snapshot before instance deletion since after your instance is deleted, automated backups will no longer be available.
Cancel
Delete

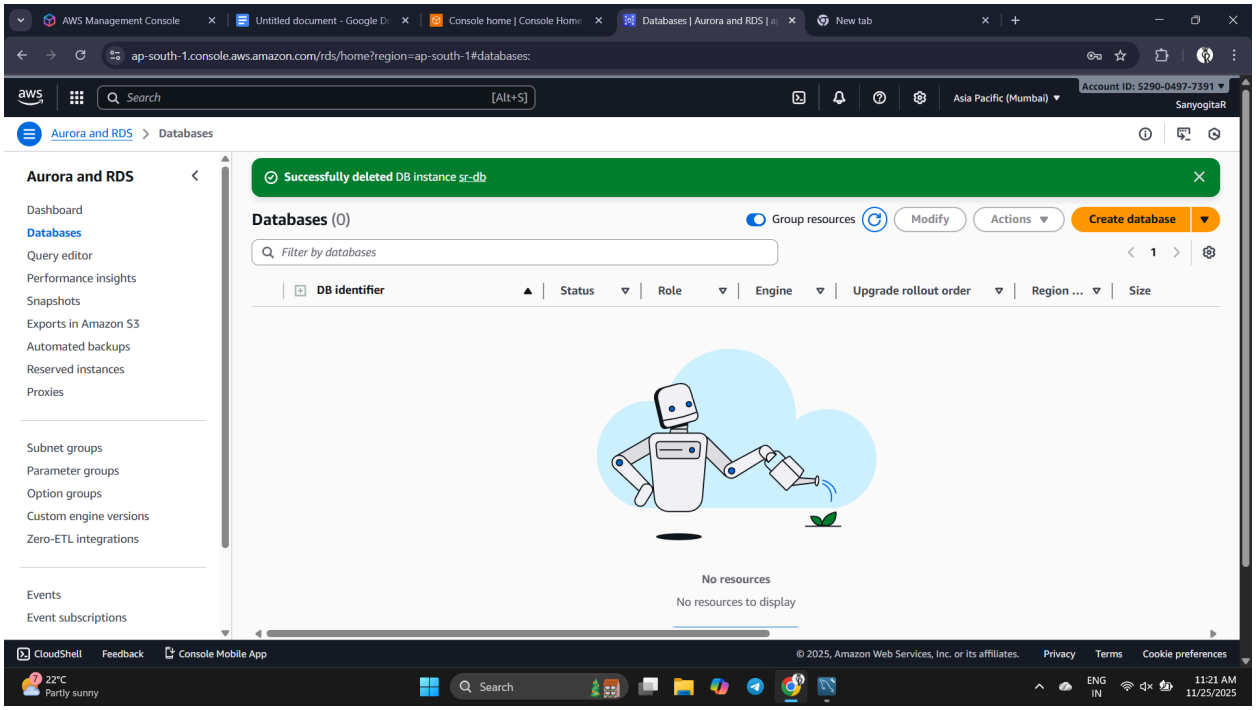


1. Delete RDS instance

1. Go to **RDS → Databases**
2. Select **mydb-lab**
3. Click **Actions → Delete**
4. Disable “Create final snapshot” (to avoid storage cost)
5. Type **delete me** and confirm

2. Delete RDS Security Group

EC2 → Security groups → delete `rds-sg-lab` (only if not attached to anything).


AWS Management Console
Untitled document - Google D
Console home | Console Home
Databases | Aurora and RDS |
New tab
ap-south-1.console.aws.amazon.com/rds/home?region=ap-south-1#databases:
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Successfully deleted DB instance sr-db
Databases (0)
Group resources
Modify
Actions
Create database
Filter by databases
1
DB identifier
Status
Role
Engine
Upgrade rollout order
Region ...
Size
No resources
No resources to display
CloudShell
Feedback
Console Mobile App
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Terms
Cookie preferences
22°C
Partly sunny
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ENG
IN
11:21 AM
11/25/2025