

Assignment 3

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IT batch

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Shortcuts and Recently Viewed Services

RDS EC2

AWS MARKETPLACE Find and buy software, launch with 1-Click and pay by the hour.

FEEDBACK Let us know what you think about new Console Home.

Service Health View Dashboard All services are operating normally. Updated Aug 01 2016 12:03:00 GMT+0530

AWS Services SHOW CATEGORIES

COMPUTE	DEVELOPER TOOLS	INTERNET OF THINGS
EC2	CodeCommit	AWS IoT
EC2 Container Service	CodeDeploy	
Elastic Beanstalk	CodePipeline	
Lambda		
STORAGE & CONTENT DELIVERY	MANAGEMENT TOOLS	GAME DEVELOPMENT
S3	CloudWatch	GameLift
CloudFront	CloudFormation	
Elastic File System	Config	
Glacier	OpsWorks	
Snowball	Service Catalog	
Storage Gateway	Trusted Advisor	
DATABASE	SECURITY & IDENTITY	MOBILE SERVICES
RDS	IAM	Mobile Hub
DynamoDB	Directory Service	Cognito
ElasticCache	Inspector	Device Farm
Redshift	WAF	Mobile Analytics
DMS	Certificate Manager	SNS
NETWORKING	ANALYTICS	APPLICATION SERVICES
VPC	EMR	API Gateway
Direct Connect	Data Pipeline	AppStream
		CloudSearch
		Elastic Transcoder
		SES
		SQS
		SWF
		ENTERPRISE APPLICATIONS
		WorkSpaces
		Wavelength

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Screenshot of the AWS RDS Home Page:

The page displays the Amazon Relational Database Service (Amazon RDS) interface. On the left, a sidebar lists navigation options: RDS Dashboard, Instances, Clusters, Reserved Purchases, Snapshots, Security Groups, Parameter Groups, Option Groups, Subnet Groups, Events, Event Subscriptions, and Notifications. The main content area features a large blue circular icon, followed by the heading "Amazon Relational Database Service". Below the heading, a descriptive text states: "Amazon Relational Database Service (Amazon RDS) makes it easy to set up, operate, and scale relational databases in the cloud. It provides cost-efficient and resizable capacity while managing time-consuming database administration tasks, freeing you up to focus on your applications and business." Two buttons are present: "Get Started Now" and "Getting Started Guide".

Below the main content, three large icons represent different actions: "Launch" (with a database cluster icon), "Connect" (with a computer monitor icon), and "Manage and Monitor" (with a user profile and gear icon).

Screenshot of the "Select Engine" Step 1:

The screenshot shows the "Step 1: Select Engine" step of a wizard. The title is "Select Engine". A sub-instruction says: "To get started, choose a DB Engine below and click Select." A list of engines is provided, each with a small icon and a "Select" button:

- Amazon Aurora (selected)
- MySQL (selected)
- MySQL Community Edition
- MySQL
- MariaDB
- PostgreSQL
- ORACLE
- SQL Server

A detailed description of MySQL is shown:

MySQL is the most popular open source database in the world. MySQL on RDS offers the rich features of the MySQL community edition with the flexibility to easily scale compute resources or storage capacity for your database.

- Supports database size up to 6 TB.
- Instances offer up to 32 vCPUs and 244 GiB Memory.
- Supports automated backup and point-in-time recovery.
- Supports cross-region read replicas.

Buttons at the bottom include "Select" (highlighted in blue) and "Cancel".

Screenshot of the AWS RDS console showing the "Step 2: Production?" configuration step. The user has selected "Amazon Aurora" as the engine, which is marked as "Recommended". The "Production" section also lists "MySQL" as an option. A note states: "This instance is intended for use outside of production or under the RDS Free Usage Tier." Navigation buttons at the bottom include "Cancel", "Previous", and "Next Step".

Screenshot of the AWS RDS console showing the "Step 3: Specify DB Details" configuration step. The user has selected "MySQL" as the DB Engine, "general-public-license" as the License Model, and "5.6.27" as the DB Engine Version. Under "Instance Specifications", they have chosen "db.t2.medium — 2 vCPU, 4 GiB RAM" as the DB Instance Class, "Select One" for Multi-AZ Deployment, "General Purpose (SSD)" for Storage Type, and "15" for Allocated Storage. A warning message notes: "Promoting less than 100 GB of General Purpose (SSD) storage for high throughput workloads could result in higher latencies upon exhaustion of the initial General Purpose (SSD) IO credit balance." In the "Settings" section, the DB Instance Identifier is set to "test1", and the Master Username is "prashan". The Master Password and Confirm Password fields are also present. Navigation buttons at the bottom include "Cancel", "Previous", and "Next Step".

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https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#launch-dbinstance:ct=gettingStarted:

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Step 4: Configure Advanced Settings

Configure Advanced Settings

Network & Security

- VPC: Default VPC (id: a92774a5)
- Subnet Group: Default
- Publicly Accessible: Yes
- Availability Zone: No Preference
- VPC Security Groups: Create new Security Group (Default (VPC))

Database Options

- Database Name: (Leave empty to automatically generate)
- Database Port: 3306
- DB Parameter Group: default.mysql5.6
- Option Group: default.mysql5.6
- Copy To Archives: No
- Enable Encryption: No

Backup

Please note that automated backups are currently supported for MySQL storage engine only. If you are using MySQL, refer to [these instructions](#).

- Backup Retention Period: 7 days
- Backup Window: No Preference

Monitoring

- Enable Enhanced Monitoring: No

Maintenance

- Auto Minor Version Upgrade: No
- Maintenance Window: No Preference

* Required Cancel Previous **Launch DB Instance**

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Step 1: Select Engine

Step 2: Production?

Step 3: Specify DB Details

Step 4: Configure Advanced Settings

Your DB Instance is being created.

Note: Your instance may take a few minutes to launch.

Connecting to your DB Instance

You will be unable to connect to your database instance unless you have previously authorized access on your chosen security group.

[Go to the Security Groups Page](#)

Related AWS Services

Amazon ElastiCache

Add a managed Memcached or Redis-compatible in-memory cache to speed up your database access.

[Click here to learn more and launch your Cache Cluster](#)

View Your DB Instances

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Screenshot of the AWS RDS Dashboard showing a MySQL instance named "test1" in the "creating" state. The instance is set to use the db.t2.medium class and is associated with the VPC vpc-aa2774ce.

Instance Actions

Monitoring

	Current Value	Threshold	Last Hour	Current Value	Last Hour
CPU	No Data	[Progress Bar]	[Progress Bar]	Read IOPS	No Data
Memory	No Data	[Progress Bar]	[Progress Bar]	Write IOPS	No Data
Storage	No Data	[Progress Bar]	[Progress Bar]	Swap Usage	No Data

Screenshot of the AWS RDS Dashboard showing the same MySQL instance "test1" now in the "backing-up" state. The instance is still db.t2.medium and associated with VPC vpc-aa2774ce.

Monitoring

	Current Value	Last Hour	Current Value	Last Hour
CPU	No Data	[Progress Bar]	Read IOPS	11/sec
Memory	3,400 MB	[Progress Bar]	Write IOPS	73.2/sec
Storage	14,600 MB	[Progress Bar]	Swap Usage	0 MB

Screenshot of the AWS RDS Dashboard showing the MySQL instance "test1" now in the "authorized" state. The endpoint is listed as test1.cztl1my3if.us-west-2.rds.amazonaws.com:3306.

Monitoring

	Current Value	Last Hour	Current Value	Last Hour
CPU	No Data	[Progress Bar]	Read IOPS	11/sec
Memory	3,400 MB	[Progress Bar]	Write IOPS	73.2/sec
Storage	14,600 MB	[Progress Bar]	Swap Usage	0 MB

RDS Dashboard

[Launch DB Instance](#) [Show Monitoring](#) [Instance Actions](#)

Filter: All Instances Viewing 1 of 1 DB Instances

Engine	DB Instance	Status	CPU	Current Activity	Maintenance	Class	VPC	Multi-AZ	Replication
MySQL	test1	Up	0 Connections	None		db.t2.medium	vpc-aa2774ce	No	

Endpoint: test1.cztl1nmy3if.us-west-2.rds.amazonaws.com:3306 (authorized)

See Details

Alarms and Replicas

- TIME (UTC+5:30)
- Create Read Replica
- Promote Read Replica
- Take Snapshot
- Restore to Point in Time
- Migrate Latest Snapshot**
- Modify
- Reboot
- Delete

Monitoring

CURRENT VALUE	THRESHOLD	LAST HOUR	CURRENT VALUE	LAST HOUR
CPU	No Data		Read IOPS	11/sec
Memory	3,400 MB		Write IOPS	73.2/sec
Storage	14,600 MB		Swap Usage	0 MB

Instance Actions [Tags](#) [Logs](#)

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https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#dbinstance:id=test1

RDS Dashboard

DB Instances > test1

Details Recent Events & Logs

Endpoint: test1.cztl1nmy3if.us-west-2.rds.amazonaws.com:3306 (authorized)

Configuration Details		Security and Network	
Engine	MySQL 5.6.27	Availability Zone	us-west-2b
License Model	General Public License	VPC	vpc-aa2774ce
Created Time	August 1, 2016 at 12:12:12 PM UTC+5:30	Subnet Group	default (Complete)
DB Name	prashan	Subnets	subnet-c83878ac subnet-ddef77ab subnet-b5a403e1
Username	prashan	Security Groups	rds-launch-wizard (sg-36c09e50) (active)
Option Group	default:mysql-5.6 (in-sync)	Publicly Accessible	Yes
Parameter Group	default:mysql5.6 (in-sync)	Endpoint	test1.cztl1nmy3if.us-west-2.rds.amazonaws.com
Copy Tags To Snapshots	No	Port	3306
Resource ID	db-AJ7PPVXGDNQSALAKQIQOXJMF OE	Certificate Authority	rds-ca-2015 (Mar 5, 2020)

Instance and IOPS

Instance Class	db.t2.medium
Storage Type	General Purpose (SSD)
IOPS	disabled
Storage	15 GB

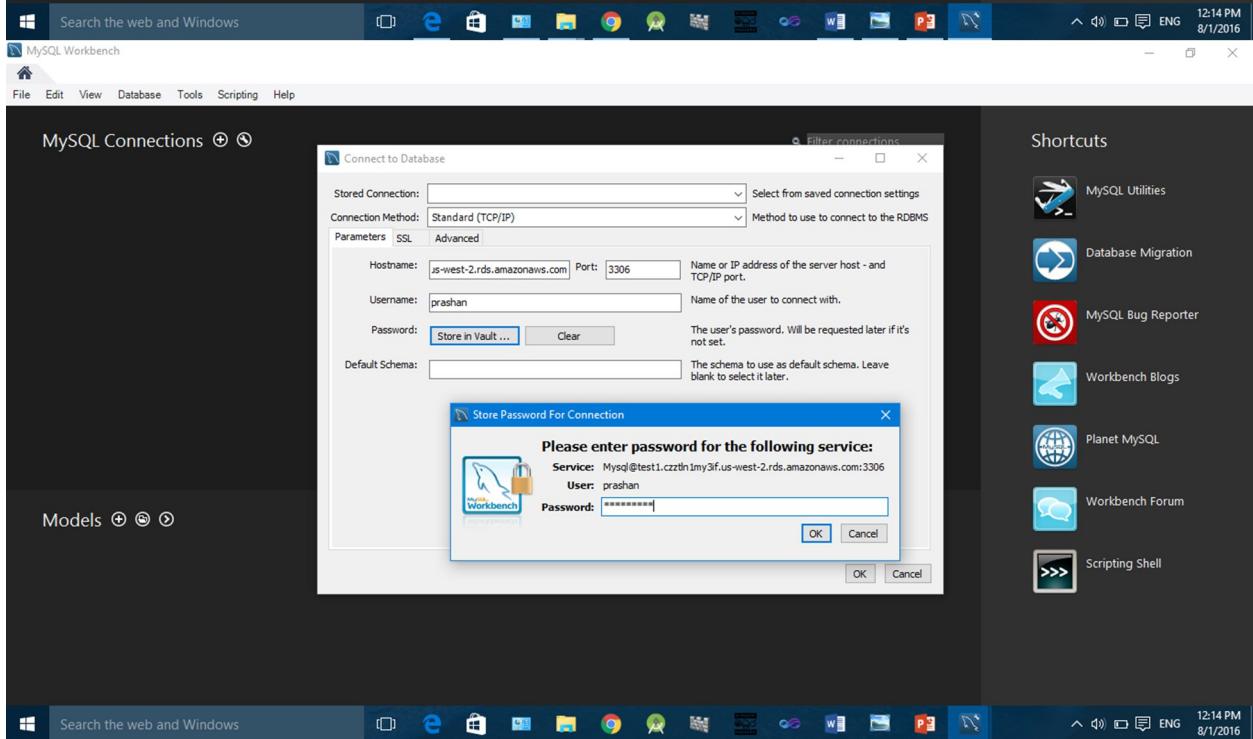
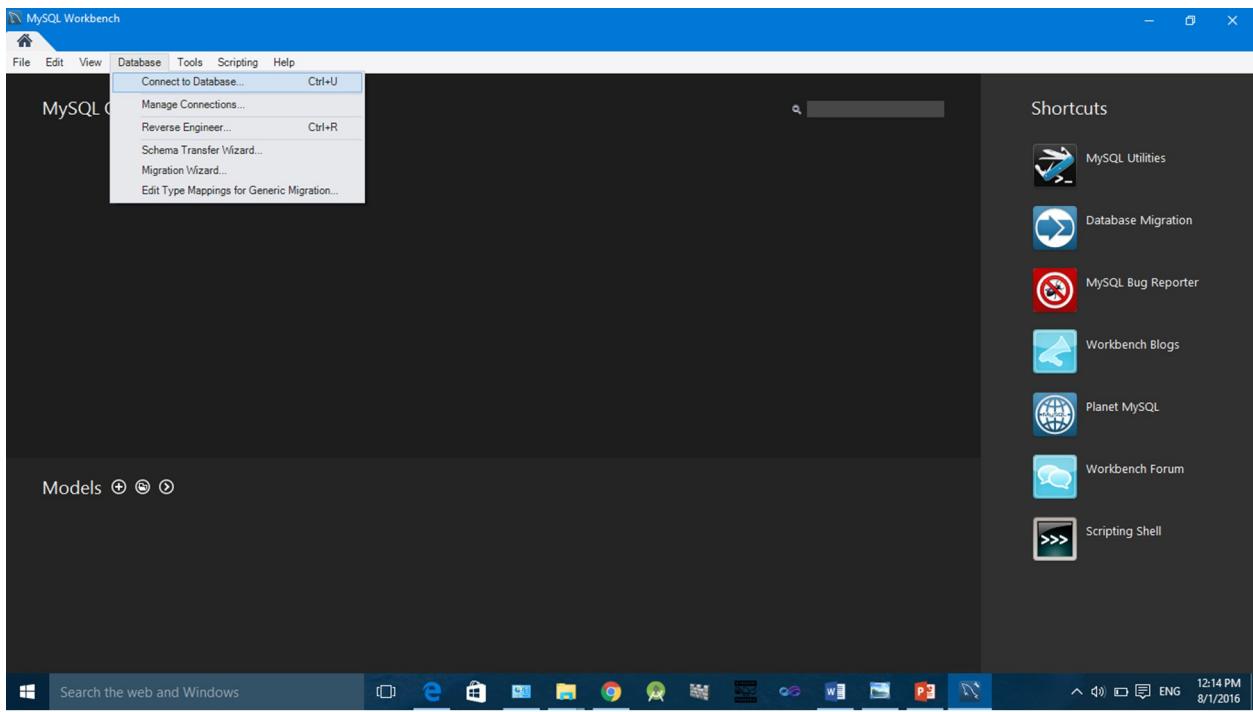
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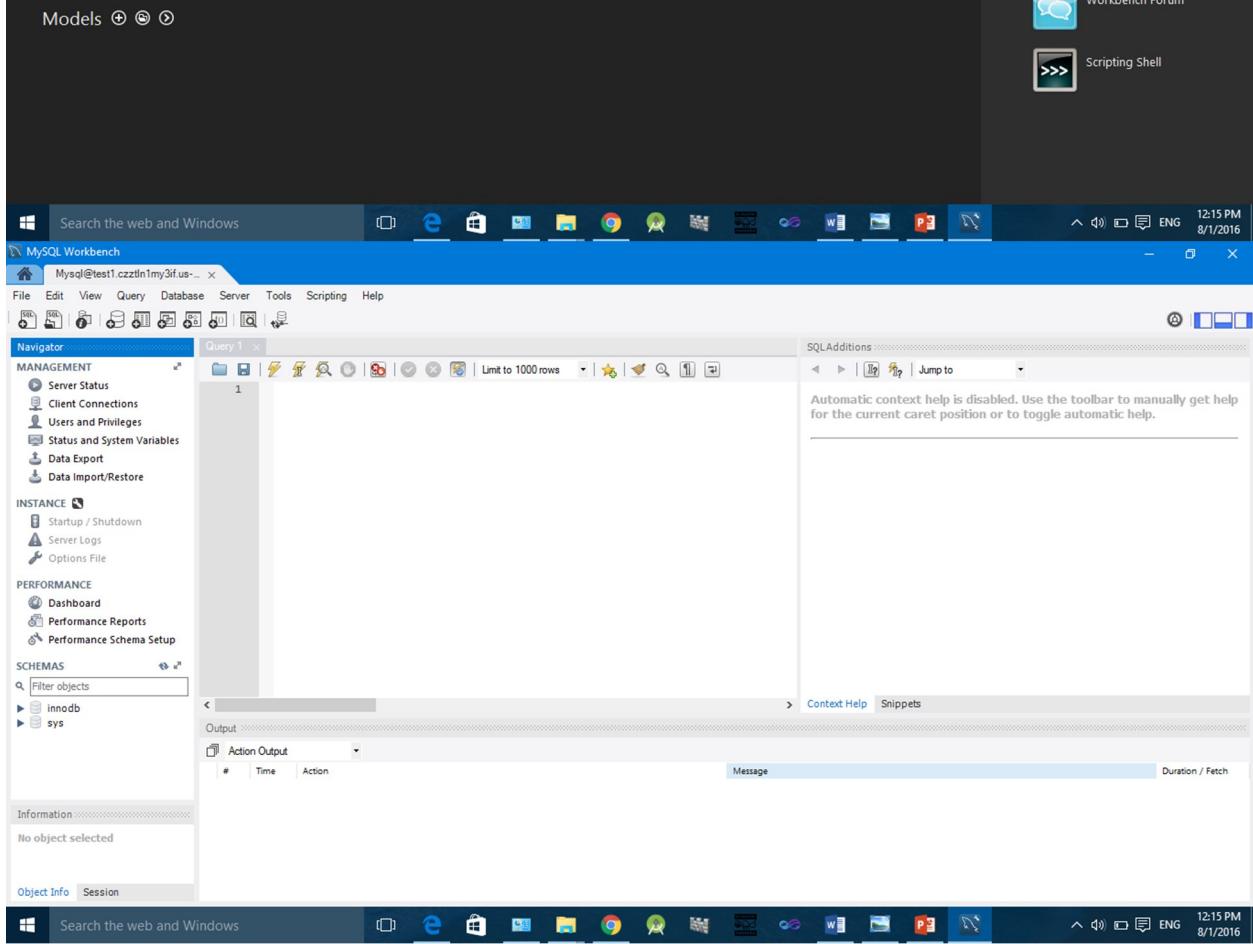
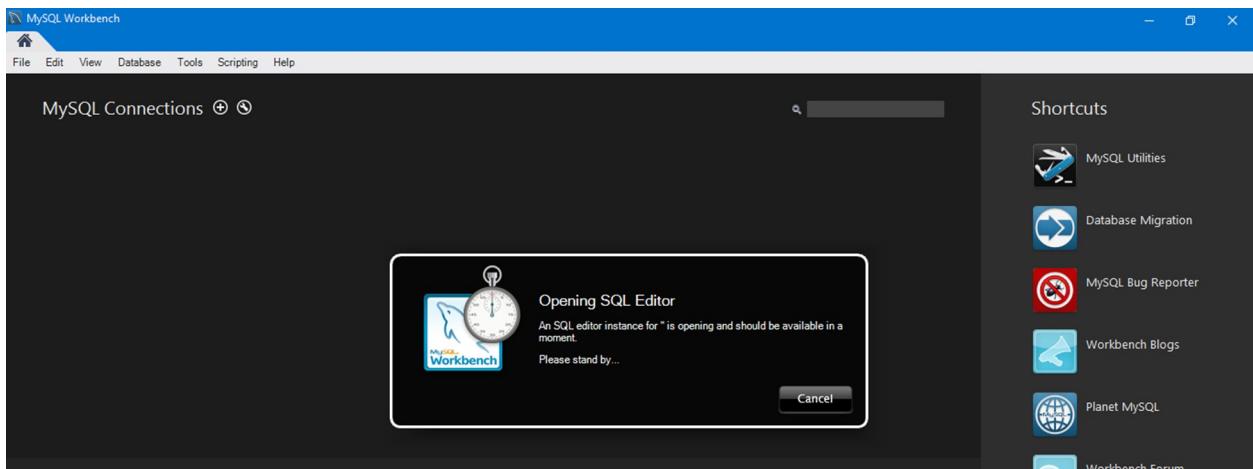
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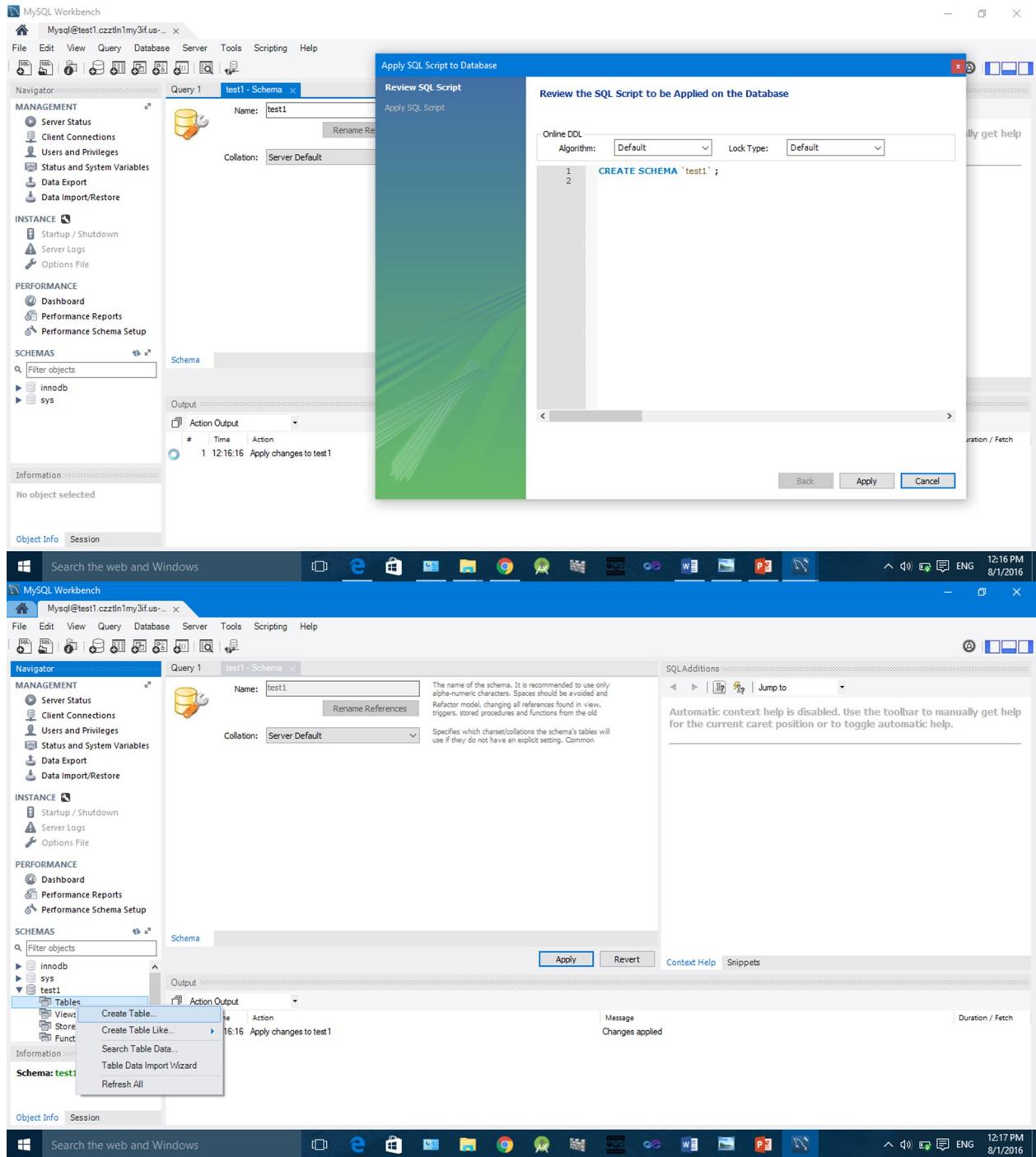
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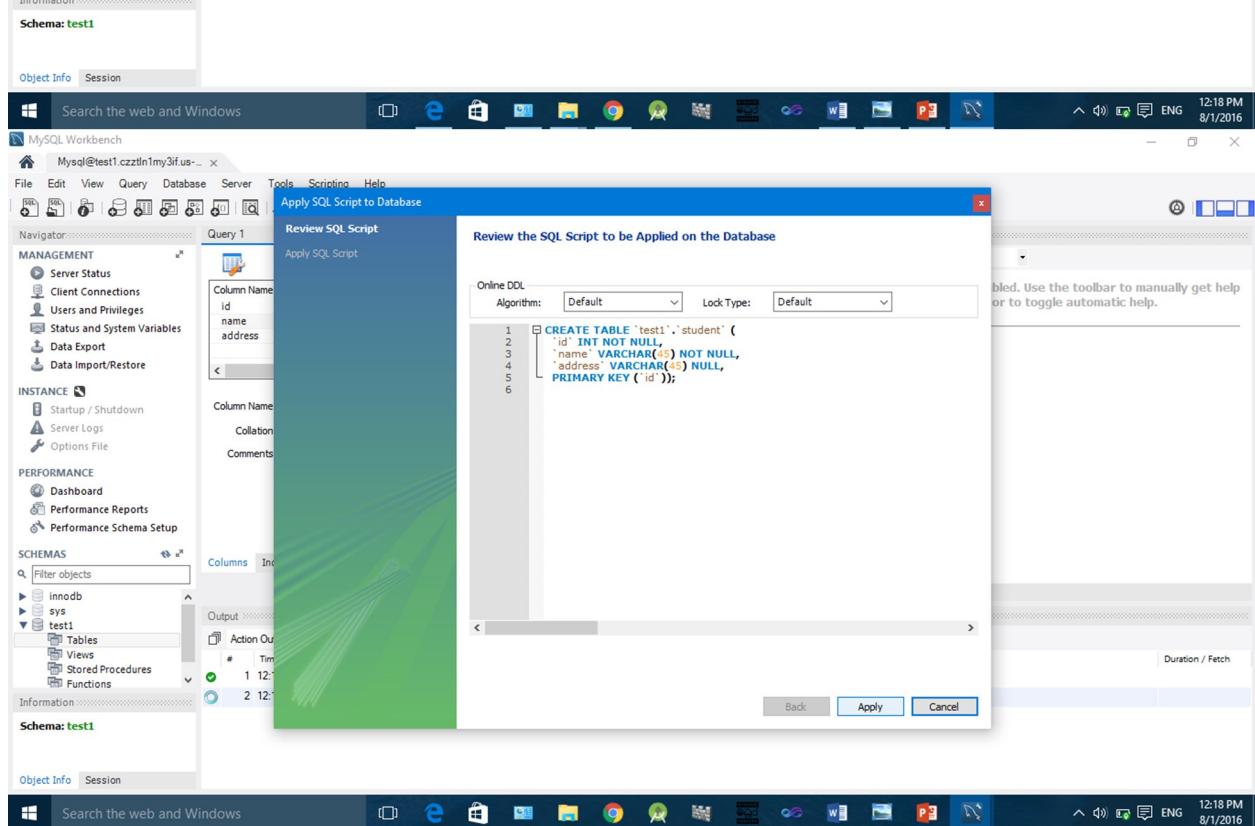
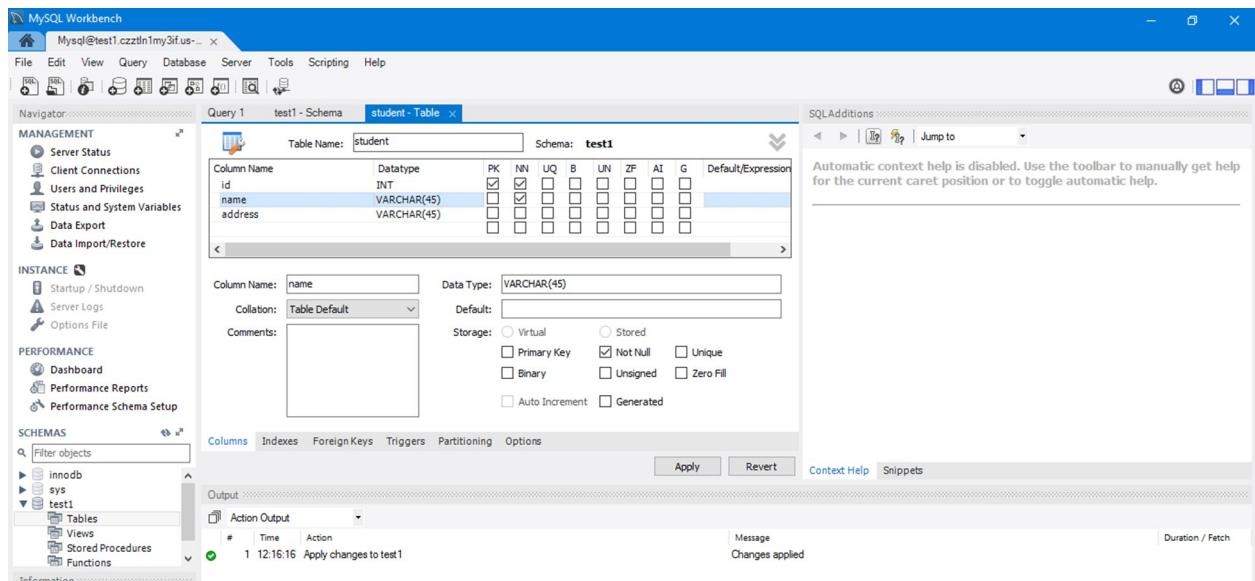
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Screenshot of the AWS RDS Dashboard showing the 'Instances' section. A context menu is open over the 'test1' instance, listing options like 'See Details', 'Create Read Replica', 'Promote Read Replica', 'Take Snapshot', 'Restore to Point in Time', 'Migrate Latest Snapshot', 'Modify', 'Reboot', and 'Delete'. The 'Delete' option is highlighted.

Screenshot of the AWS RDS Dashboard showing the 'Delete DB Instance' confirmation dialog. It asks if you're sure to delete the 'test1' DB instance. It includes fields for 'Create final Snapshot?' (set to 'No'), a checkbox for acknowledging automated backups will no longer be available, and a warning message about taking a final snapshot before deletion. Buttons for 'Cancel' and 'Delete' are at the bottom.

Screenshot of the AWS RDS Dashboard showing the 'Delete DB Instance' confirmation dialog again, identical to the previous one but with a slightly different visual representation of the warning message.

Screenshot of the AWS RDS Dashboard showing the status of a MySQL database instance named "test1".

The instance is currently in a **deleting** state, with a CPU usage of 0.82% and 0 connections. It is associated with a db.t2.medium instance type, a VPC endpoint (vpc-aa2774ce), and no replicates.

The monitoring section displays recent events and current system metrics:

TIME (UTC+5:30)	EVENT
Aug 1 12:15 PM	Finished DB Instance backup
Aug 1 12:13 PM	Backing up DB instance
Aug 1 12:12 PM	DB instance created
Aug 1 12:11 PM	DB instance restarted

Metric	Current Value	Threshold	Last Hour	Current Value	Last Hour
CPU	0.82%	0.82%	0.82%	Read IOPS	0.55/sec
Memory	3,270 MB	3,270 MB	3,270 MB	Write IOPS	0.55/sec
Storage	14,500 MB	14,500 MB	14,500 MB	Swap Usage	0 MB