

AMITY SCHOOL OF ENGINEERING & TECHNOLOGY



(Academic Year 2022-23)

LAB- 7

Student Name: Vikas Rajbhar

Class: B. Tech CSE Semester: 7

Enrolment Number: A70405219037

Faculty In-charge

{Department of CSE}

ASET, AUM

AIM OF THE EXPERIMENT:

Problem Statements:

1. Create DynamoDB in AWS.
2. Create RDS using MySQL in AWS.
3. Connect RDS in AWS through SQL workbench and EC2 Instance.

1. Create DynamoDB in AWS.

The screenshot shows the 'Create table' page in the AWS Management Console. The page has a blue header with the AWS logo, 'Services', a search bar, and user information (Oregon, Vikas Rajbhar). Below the header, there's a blue banner with a feedback survey. The main content area is titled 'Create table' and contains a 'Table details' section. This section includes a 'Table name' field with the value 'Table_Lab', a 'Partition key' dropdown set to 'Number', and a 'Sort key - optional' dropdown set to 'String'. The 'Table name' field has a description: 'This will be used to identify your table. Between 3 and 255 characters, containing only letters, numbers, underscores (_), hyphens (-), and periods (.).' The 'Partition key' field has a description: 'The partition key is part of the table's primary key. It is a hash value that is used to retrieve items from your table and allocate data across hosts for scalability and availability. 1 to 255 characters and case sensitive.' The 'Sort key - optional' field has a description: 'You can use a sort key as the second part of a table's primary key. The sort key allows you to sort or search among all items sharing the same partition key. Enter the sort key name'.

Put partition key as id and create the table.

The screenshot shows the 'Tables' page in the AWS Management Console. The page has a blue header with the AWS logo, 'Services', a search bar, and user information (Oregon, Vikas Rajbhar). Below the header, there's a blue banner with a feedback survey. The main content area is titled 'Tables (1)' and contains a table with the following data:

	Name	Status	Partition key	Sort key	Indexes	Read capacity mode	Write capacity mode	Size
<input type="checkbox"/>	Table_Lab	Active	cclab (S)	-	0	Provisioned with auto scaling (1)	Provisioned with auto scaling (1)	64 bytes

2. Create RDS using MySQL in AWS.

Create Database in RDS

Services

Search

[Alt+S]

We listened to your feedback!

Now, create a database with a single click using our pre-built configurations! Or choose your own configurations.

Share your feedback

RDS > Create 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


☐ Amazon Aurora


☒ MySQL


☐ MariaDB


☐ PostgreSQL


☐ Oracle


☐ Microsoft SQL Server


Edition

☒ MySQL Community

Known issues/limitations

MySQL

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 64 TiB.
- Supports General Purpose, Memory Optimized, and Burstable Performance instance classes.
- Supports automated backup and point-in-time recovery.
- Supports up to 5 Read Replicas per instance, within a single Region or cross-region.

Templates

Choose a sample template to meet your use case.

☐ **Production**
Use defaults for high availability and fast, consistent performance.

☐ **Dev/Test**
This instance is intended for development use outside of a production environment.

☒ **Free tier**
Use RDS Free Tier to develop new applications, test existing applications, or gain hands-on experience with Amazon RDS.
[Info](#)

Availability and durability

Deployment options [Info](#)

The deployment options below are limited to those supported by the engine you selected above.

☒ **Multi-AZ DB Cluster - *new***
Creates a DB cluster with a primary DB instance and two readable standby DB instances, with each DB instance in a different Availability Zone (AZ). Provides high availability, data redundancy and increases capacity to serve read workloads.

☐ **Multi-AZ DB instance (not supported for Multi-AZ DB cluster snapshot)**
Creates a primary DB instance and a standby DB instance in a different AZ. Provides high availability and data redundancy, but the standby DB instance doesn't support connections for read workloads.

☐ **Single DB instance (not supported for Multi-AZ DB cluster snapshot)**
Creates a single DB instance with no standby DB instances.

aws

Services

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Settings

DB instance identifier

Info

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.

database1

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

Info

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

admin

1 to 16 alphanumeric characters. First character must be a letter.

☐ Auto generate a password

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

Master password

Info

Constraints: At least 8 printable ASCII characters. Can't contain any of the following: / (slash), ' (single quote), " (double quote) and @ (at sign).

Confirm master password

Info

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awsServicesSearch[Alt+S]

Instance configuration

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

DB instance class

Info

☐ Standard classes (includes m classes)

☐ Memory optimized classes (includes r and x classes)

☒ Burstable classes (includes t classes)

db.t3.micro

2 vCPUs1 GiB RAMNetwork: 2,085 Mbps

☐ Include previous generation classes

Storage

Storage type

Info

General Purpose SSD (gp2)

Baseline performance determined by volume size

Allocated storage

20

GiB

The minimum value is 20 GiB and the maximum value is 6,144 GiB

Storage autoscaling

Info

Provides dynamic scaling support for your database's storage based on your application's needs.

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awsServicesSearch[Alt+S]

Storage autoscaling

Info

Provides dynamic scaling support for your database's storage based on your application's needs.

☐ Enable storage autoscaling

Enabling this feature will allow the storage to increase after the specified threshold is exceeded.

Connectivity

Info

Compute resource

Choose whether to set up a connection to a compute resource for this database. Setting up a connection will automatically change connectivity settings so that the compute resource can connect to this database.

☐ Don't connect to an EC2 compute resource

Don't set up a connection to a compute resource for this database. You can manually set up a connection to a compute resource later.

☒ Connect to an EC2 compute resource

Set up a connection to an EC2 compute resource for this database.

EC2 Instance

Info

Choose the EC2 instance to add as the compute resource for this database. A VPC security group is added to this EC2 instance. A VPC security group is also added to the database with an inbound rule that allows the EC2 instance to access the database.

Choose an EC2 instance

Virtual private cloud (VPC)

Info

Choose the VPC. The VPC defines the virtual networking environment for this DB instance.

Default VPC (vpc-09105398e95ffe89f)

Only VPCs with a corresponding DB subnet group are listed.

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• Supports automated backup and point-in-time recovery.

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Virtual private cloud (VPC)

Info

Choose the VPC. The VPC defines the virtual networking environment for this DB instance.

Default VPC (vpc-09105398e95ffe89f)

Only VPCs with a corresponding DB subnet group are listed.

After a database is created, you can't change its VPC.

DB Subnet group

Info

Choose the DB subnet group. The DB subnet group defines which subnets and IP ranges the DB instance can use in the VPC that you selected.

rds-ec2-db-subnet-group-1

Public access

Info

☐ Yes

RDS assigns a public IP address to the database. Amazon EC2 instances and other resources outside of the VPC can connect to your database. Resources inside the VPC can also connect to the database. Choose one or more VPC security groups that specify which resources can connect to the database.

☒ No

RDS doesn't assign a public IP address to the database. Only Amazon EC2 instances and other resources inside the VPC can connect to your database. Choose one or more VPC security groups that specify which resources can connect to the database.

VPC security group (firewall)

Info

Choose one or more VPC security groups to allow access to your database. Make sure that the security group rules allow the appropriate incoming traffic.

☒ Choose existing

Choose existing VPC security groups

☐ Create new

Create new VPC security group

Additional VPC security group

Choose one or more options

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aws

Services

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EC2 Instance

Info

Choose the EC2 instance to add as the compute resource for this database. A VPC security group is added to this EC2 instance. A VPC security group is also added to the database with an inbound rule that allows the EC2 instance to access the database.

i-0d36fb55217e4d7a4

vikas-inst

Some VPC settings can't be changed when a compute resource is added

Adding an EC2 compute resource automatically selects the VPC, DB subnet group, and public access settings for this database. To allow the EC2 instance to access the database, a VPC security group rds-ec2-X is added to the database and another called ec2-rds-X to the EC2 instance. You can remove the new security group for the database only by removing the compute resource.

Virtual private cloud (VPC)

Info

Choose the VPC. The VPC defines the virtual networking environment for this DB instance.

Default VPC (vpc-09105398e95ffe89f)

Only VPCs with a corresponding DB subnet group are listed.

After a database is created, you can't change its VPC.

DB Subnet group

Info

Choose the DB subnet group. The DB subnet group defines which subnets and IP ranges the DB instance can use in the VPC that you selected.

rds-ec2-db-subnet-group-1

Public access

Info

Yes

RDS assigns a public IP address to the database. Amazon EC2 instances and other resources outside of the VPC can connect to

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Services

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Public access

Info

Yes

RDS assigns a public IP address to the database. Amazon EC2 instances and other resources outside of the VPC can connect to your database. Resources inside the VPC can also connect to the database. Choose one or more VPC security groups that specify which resources can connect to the database.

No

RDS doesn't assign a public IP address to the database. Only Amazon EC2 instances and other resources inside the VPC can connect to your database. Choose one or more VPC security groups that specify which resources can connect to the database.

VPC security group (firewall)

Info

Choose one or more VPC security groups to allow access to your database. Make sure that the security group rules allow the appropriate incoming traffic.

Choose existing

Choose existing VPC security groups

Create new

Create new VPC security group.

Additional VPC security group

Choose one or more options

default

A new VPC security group rds-ec2-1 will be added to enable connectivity with your compute resource.

Availability Zone

Info

us-west-2c

Additional configuration

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Services

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Database authentication

Database authentication options [Info](#)

☒ Password authentication

Authenticates using database passwords.

☐ Password and IAM database authentication

Authenticates using the database password and user credentials through AWS IAM users and roles.

☐ Password and Kerberos authentication

Choose a directory in which you want to allow authorized users to authenticate with this DB instance using Kerberos Authentication.

Monitoring

Monitoring

☐ Enable Enhanced monitoring

Enabling Enhanced monitoring metrics are useful when you want to see how different processes or threads use the CPU.

► Additional configuration

Database options, encryption turned on, backup turned on, backtrack turned off, maintenance, CloudWatch Logs, delete protection turned off.

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• Supports up to 5 Read Replicas per instance, within a single Region or cross-region.

aws

Services

Search

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Enabling Enhanced monitoring metrics are useful when you want to see how different processes or threads use the CPU.

► Additional configuration

Database options, encryption turned on, backup turned on, backtrack turned off, maintenance, CloudWatch Logs, delete protection turned off.

Estimated monthly costs

The Amazon RDS Free Tier is available to you for 12 months. Each calendar month, the free tier will allow you to use the Amazon RDS resources listed below for free:

• 750 hrs of Amazon RDS in a Single-AZ db.t2.micro, db.t3.micro or db.t4g.micro Instance.

• 20 GB of General Purpose Storage (SSD).

• 20 GB for automated backup storage and any user-initiated DB Snapshots.

[Learn more about AWS Free Tier.](#)

When your free usage expires or if your application use exceeds the free usage tiers, you simply pay standard, pay-as-you-go service rates as described in the [Amazon RDS Pricing page](#).

You are responsible for ensuring that you have all of the necessary rights for any third-party products or services that you use with AWS services.

Cancel

Create database

MySQL

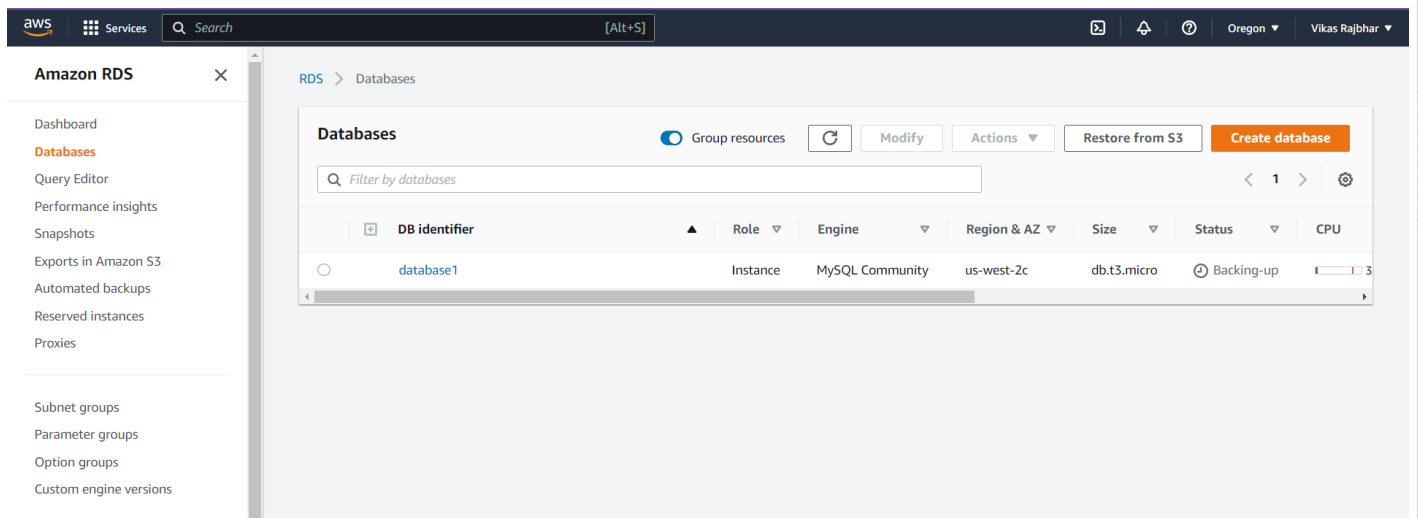
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3. Connect RDS in AWS through SQL workbench and EC2 Instance.

```
aws Services Search [Alt+S]
Last login: Sat Dec 3 11:44:31 2022 from ec2-18-237-140-163.us-west-2.compute.amazonaws.com
_ _ _ _ _
_|  _ _ _ |
_|  _ _ _ | Amazon Linux 2 AMI
_|  _ _ _ |

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-3-126 ~]$ sudo su
[root@ip-172-31-3-126 ec2-user]# yum update -y
loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core | 3.7 kB 00:00:00
No packages marked for update
[root@ip-172-31-3-126 ec2-user]# yum install mysql
loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Resolving Dependencies
--> Running transaction check
--> Package mariadb.x86_64 1:5.5.68-1.amzn2 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

Package Arch Version Repository Size
Installing:
mariadb x86_64 1:5.5.68-1.amzn2 amzn2-core 8.8 M
```

```

=====
Package                                Arch                                Version
=====
Installing:
mariadb                                x86_64                                1:5.5.68-1.amzn2
=====
Transaction Summary
=====
Install 1 Package

Total download size: 8.8 M
Installed size: 49 M
Is this ok [y/d/N]: y
Downloading packages:
mariadb-5.5.68-1.amzn2.x86_64.rpm
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : 1:mariadb-5.5.68-1.amzn2.x86_64
  Verifying  : 1:mariadb-5.5.68-1.amzn2.x86_64

Installed:
mariadb.x86_64 1:5.5.68-1.amzn2

Complete!
[root@ip-172-31-3-126 ec2-user]# mysql -h database1.cdb8fzhhbjvuc.us-west-2.rds.amazonaws.com -u admin -p

```

```

[root@ip-172-31-3-126 ec2-user]# mysql -h database1.cdb8fzhhbjvuc.us-west-2.rds.amazonaws.com -u admin -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MySQL connection id is 17
Server version: 8.0.28 Source distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MySQL [(none)]>

```

```

MySQL [(none)]> create database University
-> ;
Query OK, 1 row affected (0.02 sec)

MySQL [(none)]> show database
-> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'database' at line 1
MySQL [(none)]> show databases;
+-----+
| Database |
+-----+
| University |
| information_schema |
| mysql |
| performance_schema |
| sys |
+-----+
5 rows in set (0.00 sec)

```

```

MySQL [(none)]> use University;
Database changed
MySQL [University]> create table University_details(school_id varchar(20)Primary Key, school_name varchar(20),teaching_staff int , nonteaching_staff int , student int);
Query OK, 0 rows affected (0.02 sec)

MySQL [University]> create table School_Details(School_id varchar(20),Dept_id varchar(20) primary knTeaching_staff int,Student int,foreign key (School_id) references Univer
sity_details(School_id));
Query OK, 0 rows affected (0.05 sec)

MySQL [University]> Create table Student_Details(School_id varchar(20),Dept_id varchar(20),Enrollment_no varchar(20) primary key,Dept Name varchar(20),Student Name varchar(
20),DoB varchar(20),Email_id varchar(20),phone_no int ,foreign key (School_id) references University_details(School_id),foreign Key (Dept_id) references School_Details(Dept
_id));
Query OK, 0 rows affected (0.04 sec)

MySQL [University]> create table Teaching_Faculty_Details(School_id varchar(20),Dept_id varchar(20),Faculty_code varchar(20) primary key, Dept Name varchar(20),Teaching_Fac
ulty_name varchar(20),DoB varchar(20),Email_id varchar(20),phone_no int,foreign key (School_id) references University_details(school_id),foreign key (Dept_id) references Sc
hool_Details(Dept_id));
Query OK, 0 rows affected (0.04 sec)

```



```
MySQL [University]> show tables;
+-----+
| Tables_in_University |
+-----+
| School_Details        |
| Student_Details       |
| Teaching_Faculty_Details |
| University_details    |
+-----+
4 rows in set (0.01 sec)
```

create table University_details(school_id varchar(20)Primary Key, school_name
varchar(20),teaching_staff int , nonteaching_staff int , student int);

create table School_Details(School_id varchar(20),Dept_id varchar(20) primary key ,Dept_Name
varchar(20),School_Name varchar(20),Teaching_Staff int,NonTeaching_staff int,Student
int,foreign key (School_id) references University_details(School_id));

Create table Student_Details(School_id varchar(20),Dept_id varchar(20),Enrollment_no
varchar(20) primary key,Dept_Name varchar(20),Student_Name varchar(20),DoB
varchar(20),Email_id varchar(20),phone_no int ,foreign key (School_id) references
University_details(School_id),foreign Key (Dept_id) references School_Details(Dept_id));

create table Teaching_Faculty_Details(School_id varchar(20),Dept_id varchar(20),Faculty_code
varchar(20) primary key, Dept_Name varchar(20),Teaching_Faculty_name varchar(20),DoB
varchar(20),Email_id varchar(20),phone_no int,foreign key (School_id) references
University_details(school_id),foreign key (Dept_id) references School_Details(Dept_id));

- B) Connect using Workbench now just we need to change in previous step and connect with endpoint of
database with password.

Connectivity [Info](#)

Compute resource
Choose whether to set up a connection to a compute resource for this database. Setting up a connection will automatically change connectivity settings so that the compute resource can connect to this database.

☒ **Don't connect to an EC2 compute resource**
 Don't set up a connection to a compute resource for this database. You can manually set up a connection to a compute resource later.

☐ **Connect to an EC2 compute resource**
 Set up a connection to an EC2 compute resource for this database.

Virtual private cloud (VPC) [Info](#)
Choose the VPC. The VPC defines the virtual networking environment for this DB instance.

Default VPC (vpc-09105398e95ffe89f) ▼

Only VPCs with a corresponding DB subnet group are listed.

ⓘ After a database is created, you can't change its VPC.

DB Subnet group [Info](#)
Choose the DB subnet group. The DB subnet group defines which subnets and IP ranges the DB instance can use in the VPC that you selected.

default-vpc-09105398e95ffe89f ▼

Public access [Info](#)

☐ **Yes**
 RDS assigns a public IP address to the database. Amazon EC2 instances and other resources outside of the VPC can connect to your database. Resources inside the VPC can also connect to the database. Choose one or more VPC security groups that specify which resources can connect to the database.

Setup New Connection (Not Responding)

Connection Name: Type a name for the connection

Connection Method: Method to use to connect to the RDBMS

Parameters SSL Advanced

Hostname: Port: Name or IP address of the server host - and TCP/IP port.

Username: Name of the user to connect with.

Password: The user's password. Will be requested later if it's not set.

Default Schema: The schema to use as default schema. Leave blank to select it later.

Then result can be given as after connection:

MySQL Workbench

random x

File Edit View Query Database Server Tools Scripting Help

Navigator

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

Information

No object selected

Query 1 x

```
1 use University;
2 show tables;
3
```

Limit to 1000 rows

Result Grid

Tables_in_University

- School_Details
- Student_Details
- Teaching_Faculty_Details
- University_details

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Read Only Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	13:25:51	show databases	5 row(s) returned	0.000 sec / 0.000 sec
2	13:26:06	use University	Error Code: 1049: Unknown database 'University'	0.031 sec
3	13:26:34	use University	0 row(s) affected	0.000 sec
4	13:26:46	use University	0 row(s) affected	0.000 sec
5	13:26:46	show tables	4 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Migration x random x

File Edit View Query Database Server Tools Scripting Help

Navigator

MANAGEMENT

- Server Status
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INSTANCE

- Startup / Shutdown
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- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

Information

No object selected

Query 1 x

```
1 use University;
2 show tables;
3
4 select * from School_Details;
5
```

Limit to 1000 rows

Result Grid

School_id	Dept_id	Dept_Name	School_Name	Teaching_Staff	NonTeaching_staff	Student
1	1	1	1	1	1	1

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Read Only Context Help Snippets

Output

School_Details 4 x

Action Output

#	Time	Action	Message	Duration / Fetch
1	15:18:47	use University	0 row(s) affected	0.000 sec
2	15:18:47	show tables	4 row(s) returned	0.000 sec / 0.000 sec
3	15:36:38	select * from School_Details LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
4	15:38:02	select * from School_Details natural join University_details LIMIT 0, 1000	0 row(s) returned	0.015 sec / 0.000 sec
5	15:39:14	select * from School_Details LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Migration × random ×

File Edit View Query Database Server Tools Scripting Help

MANAGEMENT

Server Status

Client Connections

Users and Privileges

Status and System Variables

Data Export

Data Import/Restore

INSTANCE

Startup / Shutdown

Server Logs

Options File

PERFORMANCE

Dashboard

Performance Reports

Performance Schema Setup

Administration Schemas

Information

No object selected

Object Info Session

Query 1 ×

Limit to 1000 rows

1 use University;

2 show tables;

3

4 select * from School_Details natural join University_details;

5

Result Grid

School_id School_Name Teaching_Staff NonTeaching_staff Dept_id Dept_Name Student Students

Result Grid

Form Editor

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 1	15:18:47	use University	0 row(s) affected	0.000 sec
✓ 2	15:18:47	show tables	4 row(s) returned	0.000 sec / 0.000 sec
✓ 3	15:36:38	select * from School_Details LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
✓ 4	15:38:02	select * from School_Details natural join University_details LIMIT 0, 1000	0 row(s) returned	0.015 sec / 0.000 sec