

Database:

We are using the Amazon Web Service **Relational Database Service(AWS RDS)**

Amazon Relational Database Service (Amazon RDS) makes it easy to set up, operate, and scale a relational database in the cloud. It provides cost-efficient and resizable capacity while automating time-consuming administration tasks such as hardware provisioning, database setup, patching and backups. It frees you to focus on your applications so you can give them the fast performance, high availability, security and compatibility they need.

Amazon RDS is available on several database instance types - optimized for memory, performance or I/O - and provides you with six familiar database engines to choose from, including Amazon Aurora, PostgreSQL, MySQL, MariaDB, Oracle Database, and SQL Server. You can use the AWS Database Migration Service to easily migrate or replicate your existing databases to Amazon RDS.

### Amazon RDS database engines



For this project, we are using the MySQL database engines.

### Benefits

#### Easy to administer

Amazon RDS makes it easy to go from project conception to deployment. Use the [Amazon RDS Management Console](#), the [AWS RDS Command-Line Interface](#), or simple [API calls](#) to access the capabilities of a production-ready relational database in minutes. No need for infrastructure provisioning, and no need for installing and maintaining database software.

[Learn more »](#)

#### Highly scalable

You can [scale your database's compute and storage resources](#) with only a few mouse clicks or an API call, often with no downtime. Many Amazon RDS engine types allow you to launch one or more [Read Replicas](#) to offload read traffic from your primary database instance.

[Learn more »](#)

#### Available and durable

Amazon RDS runs on the same highly reliable infrastructure used by other Amazon Web Services. When you provision a [Multi-AZ DB Instance](#), Amazon RDS synchronously replicates the data to a standby instance in a different Availability Zone (AZ). Amazon RDS has many other features that enhance reliability for critical production databases, including automated backups, database snapshots, and automatic host replacement.

[Learn more »](#)

#### Fast

Amazon RDS supports the most demanding database applications. You can choose between two SSD-backed storage options: one optimized for high-performance OLTP applications, and the other for cost-effective general-purpose use. In addition, [Amazon Aurora](#) provides performance on par with commercial databases at 1/10th the cost.

[Learn more »](#)

#### Secure

Amazon RDS makes it easy to control network access to your database. Amazon RDS also lets you run your database instances in [Amazon Virtual Private Cloud \(Amazon VPC\)](#), which enables you to isolate your database instances and to connect to your existing IT infrastructure through an industry-standard encrypted IPsec VPN. Many Amazon RDS engine types offer encryption at rest and encryption in transit.

[Learn more »](#)

#### Inexpensive

You pay very low rates and only for the resources you actually consume. In addition, you benefit from the option of [On-Demand pricing](#) with no up-front or long-term commitments, or even lower hourly rates via our [Reserved Instance pricing](#).

[Learn more »](#)

Connection Name: HealthMonitoring

Hostname: softenggroup2.czmkb4udcq6o.us-east-2.rds.amazonaws.com

Port: 3306

Username: yuyangchen0122

Password: a123123q45



## HeartData table:

HeartData x test0 x users x HeartData

Limit to 1000 rows

1 • `SELECT * FROM HealthMonitoring.HeartData;`

Result Grid

Filter Rows:

Edit:

Export/Import:

id	username	HeartRate	Date	Time	type	lat	lng	address	activity
3	yuyangchen0122	81	2018-11-13	0:34:37	country	40.4847	-74.4366	Rutgers Douglass Student Center	NoActivity
4	yuyangchen0122	79	2018-11-01	10:08:06	country	40.5197	-74.461	Rutgers Sonny Werblin Recreation Center	NoActivity
5	yuyangchen0122	83	2018-10-26	19:34:31	blues	40.5197	-74.461	Rutgers Sonny Werblin Recreation Center	NoActivity
6	yuyangchen0122	85	2018-12-03	14:55:05	rock	40.5235	-74.4372	Rutgers Livingston Student Center	NoActivity
7	yuyangchen0122	83	2018-11-18	4:24:14	country	40.5235	-74.4372	Rutgers Livingston Student Center	NoActivity
8	yuyangchen0122	83	2018-12-10	21:31:30	jazz	40.5235	-74.4372	Rutgers Livingston Student Center	NoActivity
9	yuyangchen0122	78	2018-10-17	3:12:31	pop	40.5235	-74.4372	Rutgers Livingston Student Center	NoActivity
10	yuyangchen0122	84	2018-11-04	22:46:42	jazz	40.5235	-74.4372	Rutgers Livingston Student Center	NoActivity
11	yuyangchen0122	84	2018-10-31	12:10:40	classic	40.5235	-74.4372	Rutgers Livingston Student Center	NoActivity
12	yuyangchen0122	82	2018-10-24	10:17:56	raggae	40.5235	-74.4372	Rutgers Livingston Student Center	NoActivity
13	yuyangchen0122	80	2018-12-05	16:14:15	raggae	40.5235	-74.4372	Rutgers Livingston Student Center	NoActivity
14	yuyangchen0122	76	2018-11-04	15:33:04	pop	40.5235	-74.4372	Rutgers Livingston Student Center	NoActivity
15	yuyangchen0122	75	2018-11-10	3:04:29	jazz	40.5235	-74.4372	Rutgers Livingston Student Center	NoActivity
16	yuyangchen0122	76	2018-10-27	5:58:06	jazz	40.5235	-74.4372	Rutgers Livingston Student Center	NoActivity
17	yuyangchen0122	77	2018-10-26	11:34:51	pop	40.5235	-74.4372	Rutgers Livingston Student Center	NoActivity
18	yuyangchen0122	84	2018-11-09	20:10:39	rock	40.5235	-74.4372	Rutgers Livingston Student Center	NoActivity

HeartData 1

Apply Revert

Action Output

Result Grid

Form Editor

Field Types

Query Stats