

MONITORING ASSIGNMENT

INTEGRATE GRAFANA WITH MYSQL DB

PREREQUISITE

- 1) Create Linux EC2 instance in aws
- 2) yum install docker -y
- 3) systemctl start docker
- 4) systemctl enable docker

Install Grafana as docker container

- 1) docker run -d --name=grafana -p 3001:3000 -v grafana_config:/etc/grafana -v grafana_data:/var/lib/grafana -v grafana_logs:/var/log/grafana grafana/grafana
- 2) Give password admin:admin and replace to new password

Install MySql as docker container

```
docker run -d --name mysqldb -p 3306:3306 -v db_data:/var/lib/mysql -e MYSQL_ROOT_PASSWORD=password mysql:latest
```

Step 2 : docker exec -it mysqldb bash

Step 3 : mysql -u root -p password

Step 4 : show databases;

Step 5 : create database team;

Step 6: USE team;

Step 7 : CREATE TABLE person (person_id INT NOT NULL PRIMARY KEY, fname VARCHAR(40) NULL, lname VARCHAR(40) NULL, age INT NOT NULL, created TIMESTAMP);

Step 8 : Show tables;

Step 9 : Insert the Data in Mysql DB

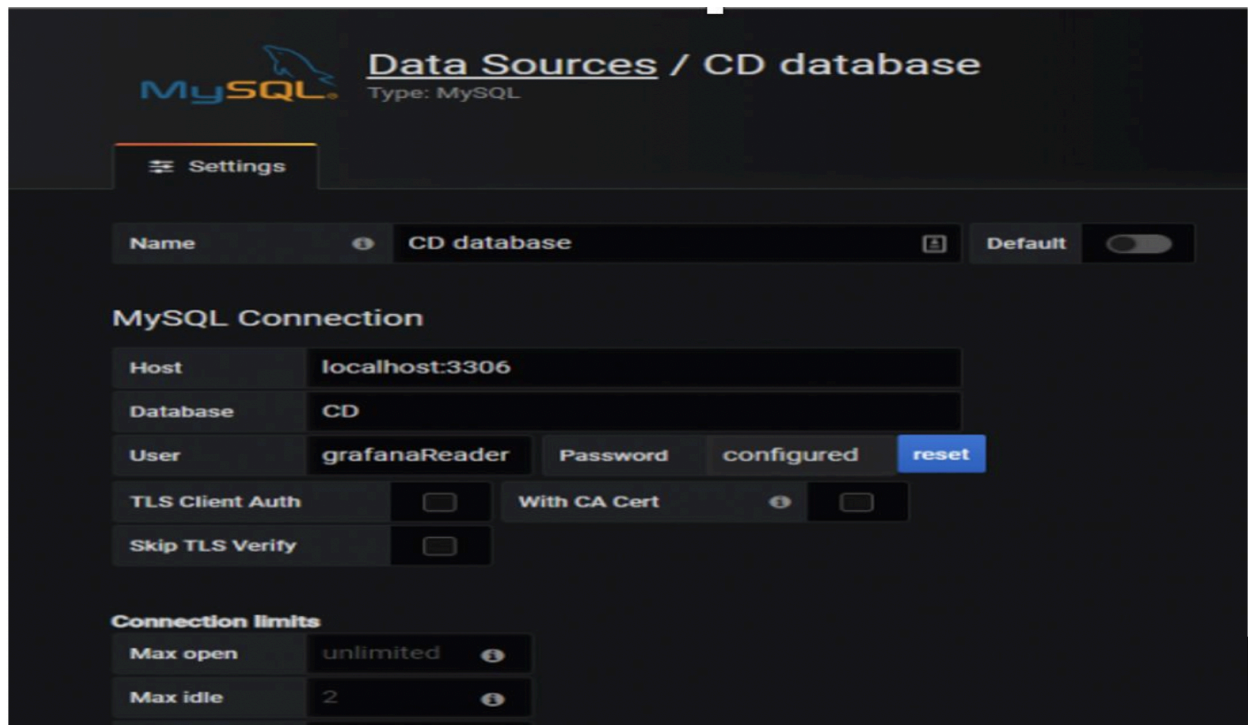
INSERT INTO person (person_id, fname, lname, age)
VALUES (1, 'Peter', 'Engineer', 32);

INSERT INTO person (person_id, fname, lname, age)
VALUES (2, 'Richard', 'Gao', 27);

INSERT INTO person (person_id, fname, lname, age)
VALUES (3, 'Howard', 'Ken', 38);

INSERT INTO person (person_id, fname, lname, age)
VALUES (4, 'Lucy', 'Dey', 32);

Step 10 : Add DataSource as MYSQL in GRAFANA



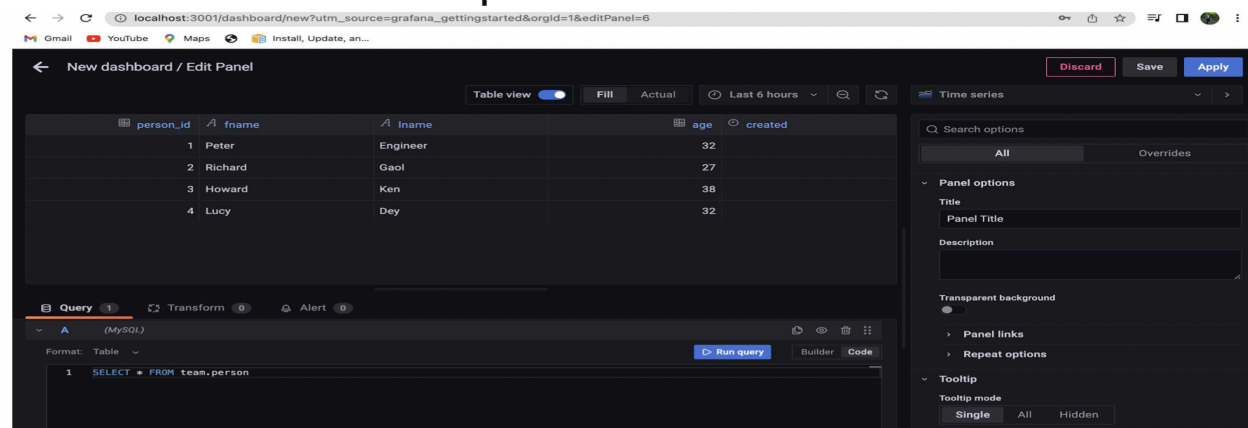
The screenshot shows the Grafana 'Data Sources / CD database' configuration page. The 'Name' field is 'CD database' and the 'Type' is 'MySQL'. Under 'MySQL Connection', the 'Host' is 'localhost:3306', 'Database' is 'CD', 'User' is 'grafanaReader', and 'Password' is 'configured'. There are checkboxes for 'TLS Client Auth' and 'Skip TLS Verify', and a 'With CA Cert' section. Under 'Connection limits', 'Max open' is 'unlimited' and 'Max idle' is '2'. A 'reset' button is next to the password field.

Data Source Configuration:

- Name: CD database
- Type: MySQL
- Host: localhost:3306
- Database: CD
- User: grafanaReader
- Password: configured
- Reset button
- TLS Client Auth: ☐
- With CA Cert: ☐
- Skip TLS Verify: ☐
- Connection limits:
 - Max open: unlimited
 - Max idle: 2

Step 11 : Add a dashboard with Add a panel and write the query

SELECT * FROM team.person



The screenshot shows a Grafana dashboard with a table panel displaying data from the 'team.person' table. The table has columns: person_id, fname, lname, age, and created. The data is sorted by person_id. The dashboard is titled 'New dashboard / Edit Panel'. The query editor shows the SQL query 'SELECT * FROM team.person'. The right sidebar contains panel options and a search bar.

Dashboard Data:

person_id	fname	lname	age	created
1	Peter	Engineer	32	
2	Richard	Gaol	27	
3	Howard	Ken	38	
4	Lucy	Dey	32	

Query: SELECT * FROM team.person

