

## ASSIGNMENT4

### 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 mysqlldb 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**

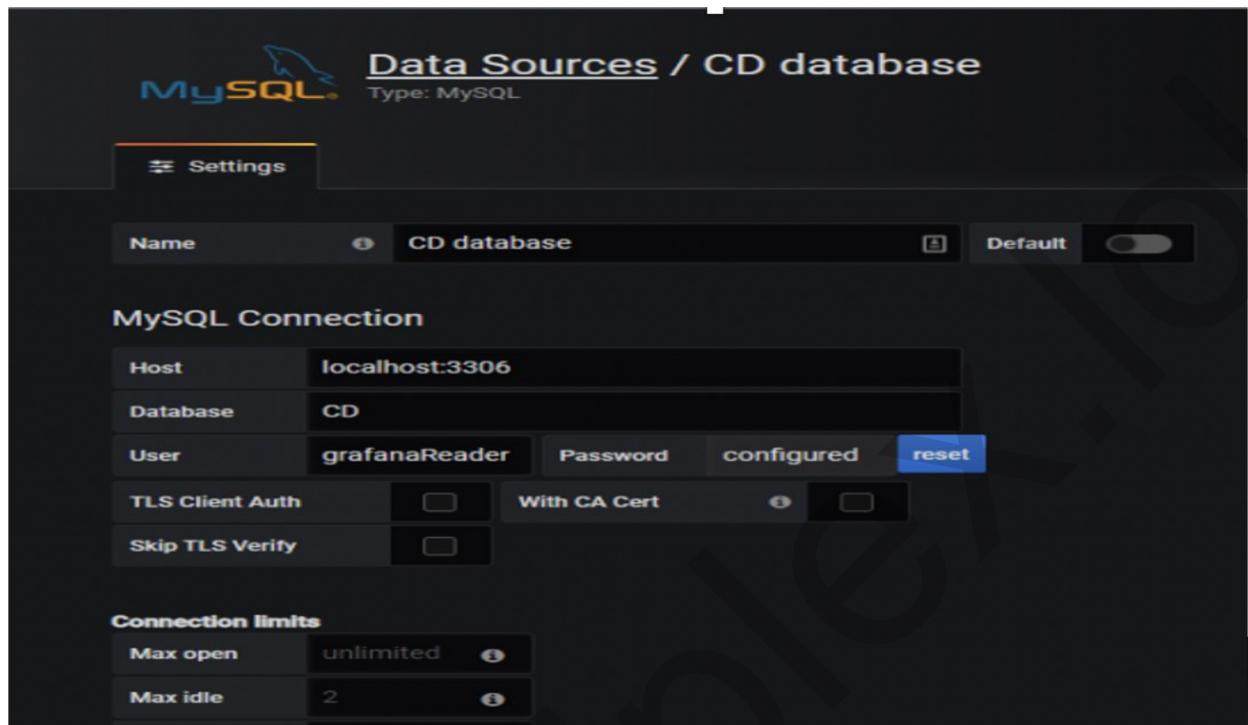
INSERT INTO person (person\_id, fname, lname, age)  
VALUES (1, 'Peter', 'Engineer', 32);

INSERT INTO person (person\_id, fname, lname, age)  
VALUES (2, 'Richard', 'Gaul', 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

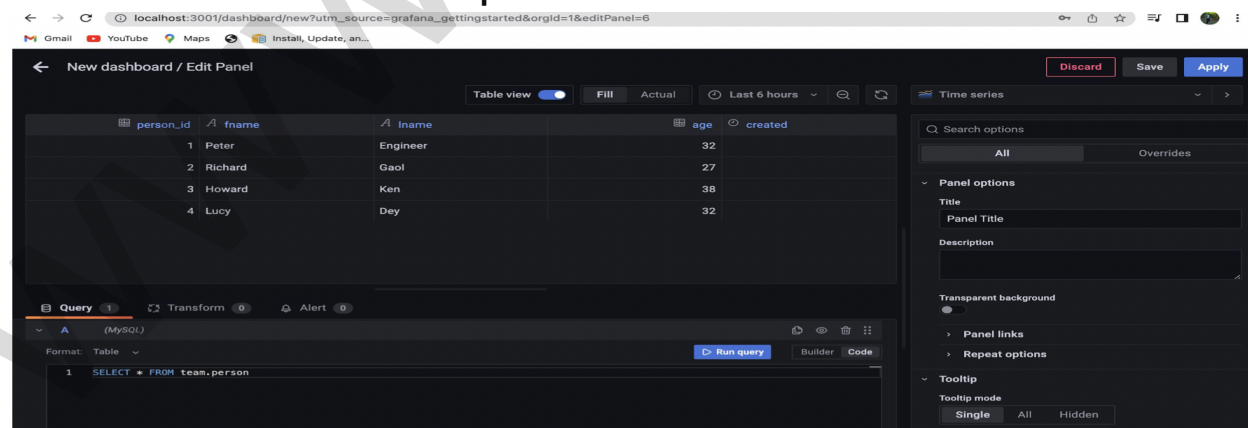


The screenshot shows the Grafana 'Data Sources / CD database' configuration page. The 'Name' is 'CD database' and it is set as 'Default'. Under 'MySQL Connection', the 'Host' is 'localhost:3306', 'Database' is 'CD', 'User' is 'grafanaReader', and 'Password' is 'configured'. There are checkboxes for 'TLS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

Field	Value
Name	CD database
Type	MySQL
Host	localhost:3306
Database	CD
User	grafanaReader
Password	configured
TLS Client Auth	<input type="checkbox"/>
With CA Cert	<input type="checkbox"/>
Skip TLS Verify	<input type="checkbox"/>
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 view of data from the 'team.person' table. The table has columns: person\_id, fname, lname, age, and created. The data is displayed in a table format. The query editor at the bottom shows the query 'SELECT \* FROM team.person'. The right sidebar contains panel options and a tooltip section.

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

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