## Darshan Nikam Date: 12/04/2024

**docker run -it -p 80:80 -p 8080:8080 -p 3306 ubuntu**

**apt update**

**apt install -y mysql-service**

**service mysql status**

**mysql\_secure\_installation (enter y asked every prompt)**

**mysql -u root -p1234 ( here login with root user and setting up new password)**

**CREATE DATABASE IF NOT EXISTS studentapp;**

**USE studentapp;**

**CREATE TABLE IF NOT EXISTS students (**

**student\_id INT NOT NULL AUTO\_INCREMENT,**

**student\_name VARCHAR(100) NOT NULL,**

**student\_addr VARCHAR(100) NOT NULL,**

**student\_age VARCHAR(3) NOT NULL,**

**student\_qual VARCHAR(20) NOT NULL,**

**student\_percent VARCHAR(10) NOT NULL,**

**student\_year\_passed VARCHAR(10) NOT NULL,**

**PRIMARY KEY (student\_id)**

**);**

**desc students;**

**exit**

**cd /opt**

**apt install wget**

**wget https://dlcdn.apache.org/tomcat/tomcat-9/v9.0.88/bin/apache-tomcat-9.0.88.tar.gz (tomcat download link)**

**tar -xvf apache-tomcat-9.0.88.tar.gz**

**wget https://webapp2-akashapp.s3.amazonaws.com/student.war -P apache-tomcat-9.0.88/webapps ( to download application)**

**apt-get install openjdk-8-jdk –y (to download java env)**

**./apache-tomcat.9.0.88/bin/catalina.sh start**

**wget https://webapp-akash.s3.amazonaws.com/mysql-connector-j-8.3.0.jar -P apache-tomcat.9.0.88/lib (to download connector)**

**now add following configuration in 20th line of apache-tomcat.9.0.88/conf/context.xml**

**Resource name="jdbc/TestDB" auth="Container" type="javax.sql.DataSource"**

**maxTotal="100" maxIdle="30" maxWaitMillis="10000"**

**username="USERNAME" password="PASSWORD" driverClassName="com.mysql.jdbc.Driver"**

**url="jdbc:mysql://localhost:3306/DATABASE"/>**

Make sure to replace USERNAME, PASSWORD, localhost, and DATABASE with the actual values ​​specific to your MySQL database configuration. Once configured, your application should be able to use this DataSource to establish connections to the MySQL database and perform database operations