installing mariaDb on raspberry Pi

- sudo apt-get install mariadb-server
   add a password for root when prompted
- 2. mysql –u root –p <enter> enter password:<enter the password you set during install>
- create database <dbname>;

note; at the end of the command

- 4. use <dbname>;
  selects <dbname> as the current database to use (obvious?)
- create table <tablename> { col1 datatype,col2 datatype,col3 datatype...);Look up the syntax if you need to specify a primary key

## **Creating users with passwords**

If you plan to allow remote access change 'localhost' to '%' in the following lines. Also note that when you create the user the username is converted to LOWERCASE. If you try to remote connwect with a capitalised username the connection will be rejected.

- create user '<user>'@'localhost' identified by '<password>';
- 2. grant all privileges on \*.\* to '<user>'@'localhost' identified by '<password>';

NOTE: you may want to restrict what a user is allowed to do and which database etc they can do it with so use:-

```
GRANT SELECT, INSERT, UPDATE, DELETE, CREATE, DROP on ...
```

## **Enabling remote access**

By default only local access is allowed. You need to edit the configuration files and restart the server

- nano /etc/mysql/my.cnf
  - find the line which contains bind-address 127.0.0.1 and comment it out
- 2. sudo service mysql restart

## **Connecting with Python**

```
Basic connection program :-
import mysql.connector
```

```
dbHost="database server ip or name"
dbUser="lowercase-username"
dbPassword="password"
dbName="your-database-name"
mydb=None # attempts to use, if connect fails, will throw an error
try:
    mydb = mysql.connector.connect(
   host=dbHost,
   user=dbUser,
    passwd=dbPassword,
    database=dbName
    print("Connected ok")
    mycursor = mydb.cursor()
except Exception as e:
    print("Error connecting to the database")
    print(e)
```

Now you can do something with mycursor..