Notes dbms Monday 31st October

Review for HTTP test:
   example http://dino.foo.us/dog/food.html

ServerName = dino.foo.us
food.html is located in DocumentRoot/dog/
http is stateless
after all the virtual hosts are looked at and the serverName is not found the default is chosen ( the first of the list in the sites-enabled folder)

MySql
   1. Install package
   2. Manage users
   3. Manage database
   4. default / Simple configuration

1 – Install package
   # apt-get install mysql-server
   you can also apt-cache search mysql server to find the different packages available
   mysql has its own root account != os root account
   → during install give password (choose a different password than your root password for os)
   open a network connection to mysql → mysql-client to contact DBMS

   # mysql -h localhost -u root -p
   this means you are connecting to localhost as root users and prompt for password
   this open an interactive shelf

   mysql> use mysql // this login the mysql DB to manage the DB
   mysql> SHOW TABLES; // display the list of tables in the DB

2 - Manage users
   mysql>SELECT User, Password, Host FROM user; // this will show all the entries in the user table under User, Password, and Host columns. The Host column determine from where the user is allowed to login.
   A few sql commands to create users:

   → we create a user fred who's password is 'secret' and is allowed to access mysql from the localhost.
     mysql> CREATE USER 'fred'@'localhost' IDENTIFIED BY 'secret';

   → we create a user fred, same password but who is allowed to login from www.dsctux.net
     mysql> CREATE USER 'fred'@'www.dsctux.net' IDENTIFIED BY 'secret';

   → we create a user dino, password 'secret' who is allowed to login from anything.dsctux.net
     mysql> CREATE USER 'dino'@'%.dsctux.net' IDENTIFIED BY 'secret';
we create a user dino, same password but who is allowed to login from the anything within the ip range 144.38.214.0 through 144.38.214.255.

```
mysql> CREATE USER 'fred'@'144.38.214.%' IDENTIFIED BY 'secret';
```

To delete every users with the username 'dino'

```
mysql> DELETE FROM user WHERE user = 'dino';
```

3 – Manage database

```
mysql> SHOW DATABASES;
mysql> CREATE DATABASE bedrock;
mysql> GRANT ALL PRIVILAGES ON bedrock.* TO 'fred'@'localhost' IDENTIFIED BY 'secret';
```

Now when you look in the db table in the mysql database, there is a row that says fred has access to bedrock db.