1-what is different http status code and explain meaning of each of them?

- informational responses (100 199)
- Successful responses (200 299)
- Redirection messages (300 399)
- Client error responses (400 499)
- Server error responses (500 599)

2-What database is used by Prometheus?

PromQL

3-what is the difference between different metrics types (counter, gauge, histogram)

- counter: how many times x happened
- gauge: current value of x right now
- histogram: how long or how big is x

4-install Prometheus on your localhost or on server in any cloud provider

```
ahmedgahned:/tmp/prometheus-2.35.0.linux-amd64\sqrt{systemd/system/prometheus}

prometheus.service - Prometheus
Loaded: loaded (/etc/systemd/system/prometheus.service; disabled; preset: enabled)
LibreOfficeWiter Ive (running) since Thu 2023-02-16 18:26:23 EET; 2s ago
Main PiD: 4427 (prometheus)
Task: 8 (limit: 4578)
Memory: 13.7M
CPU: 145ms
CGroup: /system.slice/prometheus.service
4427 /usr/local/bin/prometheus --config.file /etc/prometheus/prometheus.yml --storage.tsdb.path /var/lib/prometheus/ --web
18:26:23 16 بغ ahmed prometheus[4427]: ts=2023-02-16T16:26:23.2032 caller=head.go:493 level=info component=tsdb msg="Replaying on-disk sheet; 2s:20:23 16 بغ ahmed prometheus[4427]: ts=2023-02-16T16:26:23.2042 caller=head.go:536 level=info component=tsdb msg="On-disk memory maphes:26:23 16 بغ ahmed prometheus[4427]: ts=2023-02-16T16:26:23.2042 caller=head.go:542 level=info component=tsdb msg="Replaying MAL, this last of the state of the state
```

5-Add any new target to Prometheus.yaml file and apply any query on it using PromQL Language

```
- job_name: "prometheus"

static_configs:
    - targets: ["localhost:9090"]

- job_name: "node-exporter"

static_configs:
    - targets: ["localhost:9100"]
```

