LAB-01

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

- *1xx informational response* – the request was received, continuing process
- *2xx successful* – the request was successfully received, understood, and accepted
- *3xx redirection* – further action needs to be taken in order to complete the request
- *4xx client error* – the request contains bad syntax or cannot be fulfilled
- *5xx server error* – the server failed to fulfil an apparently valid request

2-What database is used by Prometheus?

Prometheus has a sophisticated local storage subsystem. For indexes, it uses **LevelDB**

3-what is the difference between different metrics types (counter, gauge, histogram)?
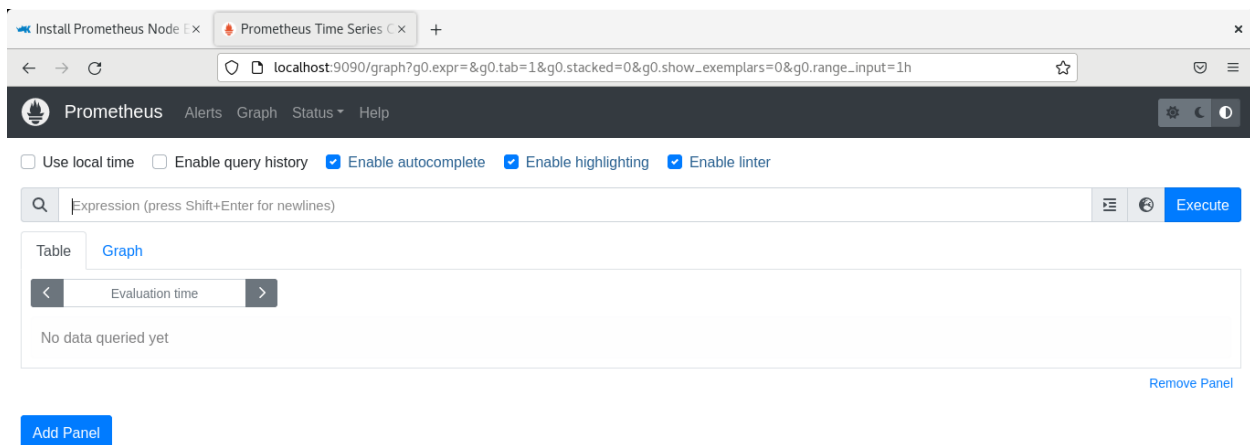
- Counters: The counter metric type is used for any value that increases, such as a request count or error count. Importantly, a counter should never be used for a value that can decrease. (How many events occur?)
- Gauge: The gauge metric type can be used for values that go down as well as up, such as current memory usage or the number of items in a queue. (the current state)
- Histograms: The histogram metric type measures the frequency of value observations that fall into specific predefined buckets. (how long the event take?)

LAB-01

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

LAB-01

5-add any new target to prometheus.yaml file and apply any query on it using promql language