Session-1:

* GCP
  + AI and machine learning
  + Not easy to migrate data from one cloud to another
* SQL
  + Database
  + Serverless – Big Query
* Tableau
* Machine learning
* Qwiklabs
* Assignment
* Data camp
* Business Analytics:
  + Emphasis on statistical analysis
  + Used by all company as all company are data company
* Descriptive analytics: What happened in the past?
* Predictive analytics: What happens next?
* Prescriptive analytics: What can be done to enhance the business process?
* Cloud Computing
  + IT infrastructure:
    - Traditional – everything in house
    - IaaS – Hardware provided
    - PaaS – Development on cloud
    - SaaS – Offering complete software on cloud
  + Serverless - Anything we do has server, but we don’t need to see it. So, for us it is serverless as we don’t have to think about it. Not hardware but business problem is more important.
    - Serverless computing
      * FaaS: Database as a service.

Quick Labs:

* Configure your environment
  + gcloud config get-value compute/zone
  + gcloud config get-value compute/region
  + gcloud compute project-info describe --project <your\_project\_ID>
  + export PROJECT\_ID=<your\_project\_ID>
  + export ZONE=<your\_zone>
* Create a virtual machine with the gcloud tool
  + gcloud compute instances create gcelab2 --machine-type n1-standard-2 --zone $ZONE
* Active account name with this command:
  + gcloud auth list
* Project ID with this command
  + gcloud config list project
* Install an NGINX web server
  + sudo su –
  + apt-get update
  + apt-get install nginx -y
  + ps auwx | grep nginx
* Create a new instance with gcloud
  + gcloud compute instances create gcelab2 --machine-type n1-standard-2 --zone us-central1-f
  + SSH to connect to your instance via gcloud
    - gcloud compute ssh gcelab2 --zone us-central1-f

SQL:

* Select, distinct, Count()
* Where - and or between in
* Null, is null
* Like, not like