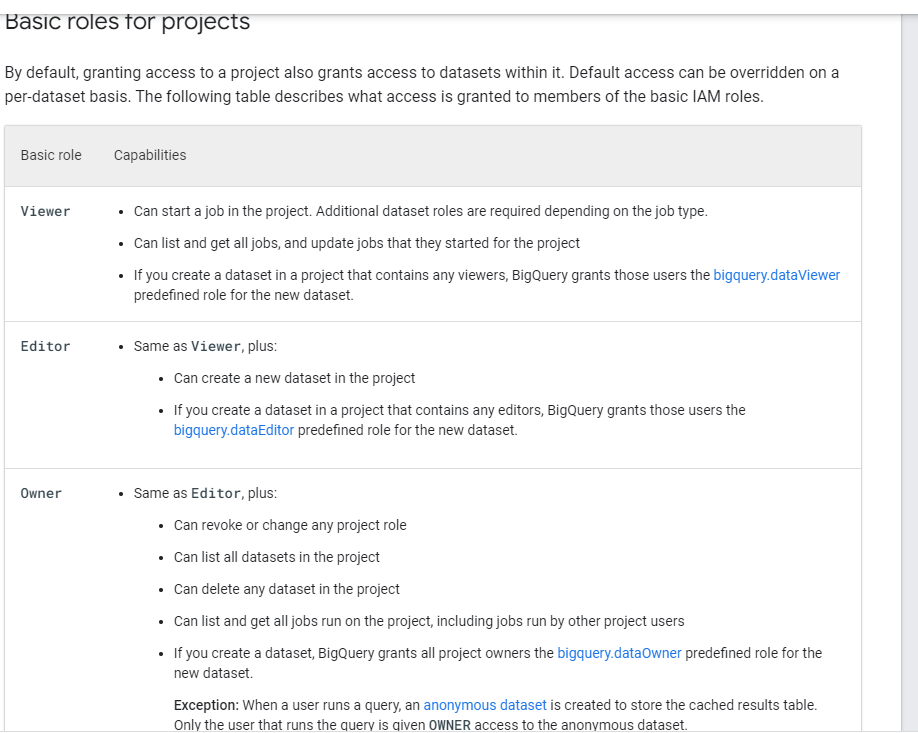
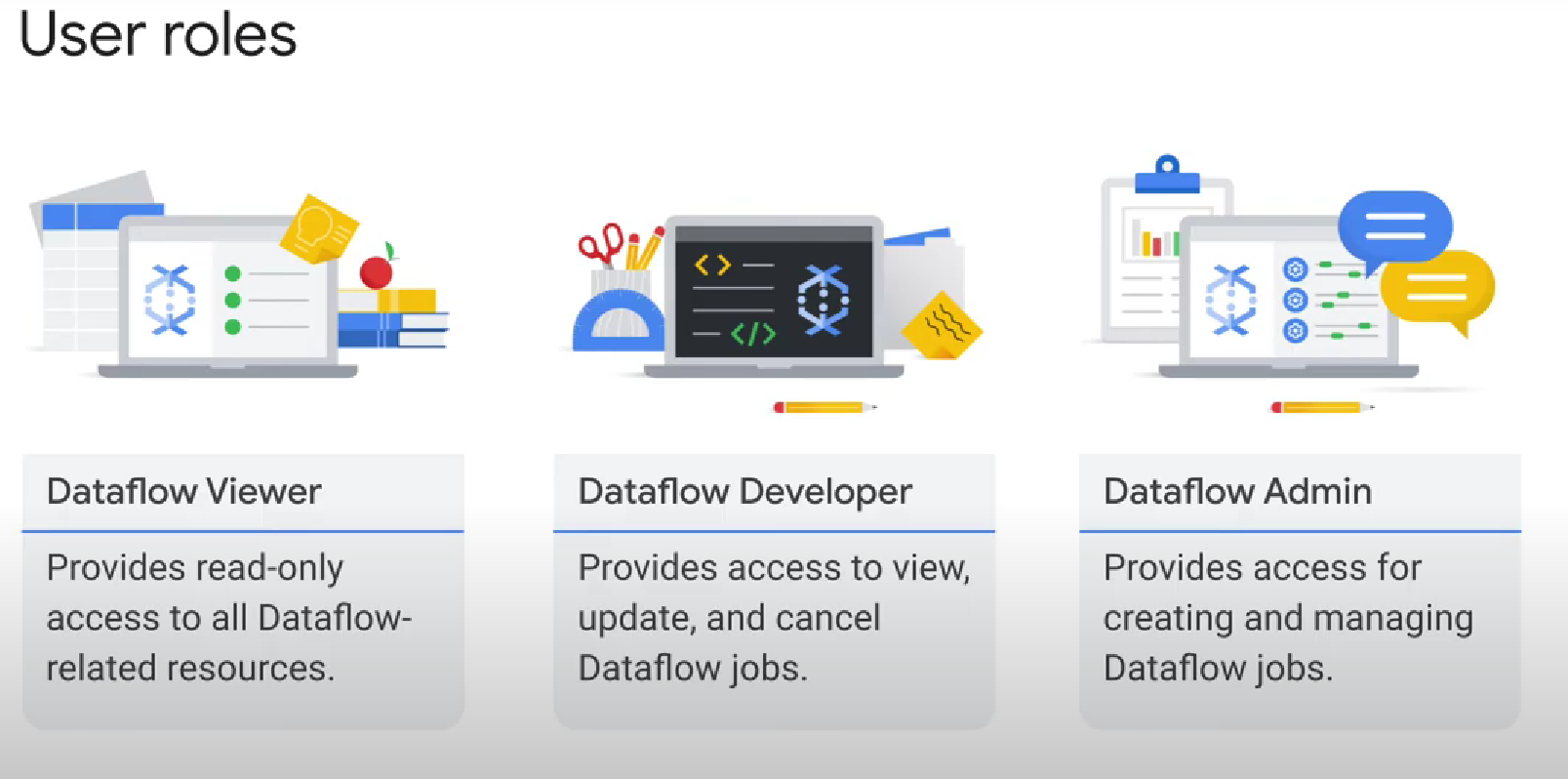
***Basic Project roles***

***Dataflow***



**- roles/dataflow.admin** = Minimal role for creating and managing dataflow jobs

**- roles/dataflow.developer** = Provides the permissions necessary to execute and manipulate Dataflow jobs, but no access to the data. Lowest-level resources where you can grant this role: **Project level**

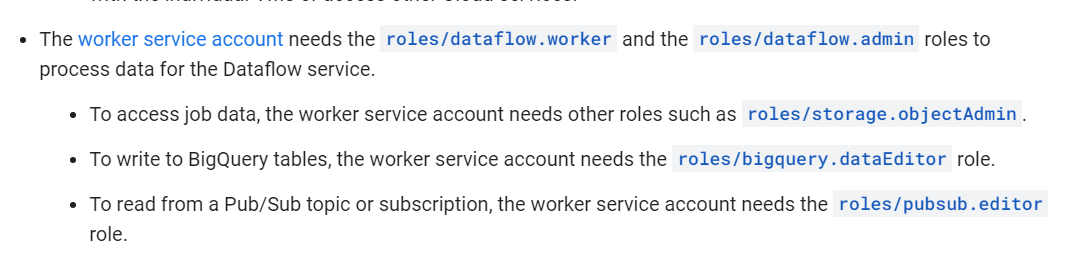
Note: this role lets the developer **create and cancel Dataflow jobs**, but **not interact with the individual VMs** or access other Cloud services.

**- roles/dataflow.viewer =** Provides read-only access to all Dataflow-related resources. Lowest-level ressource: **Project level**

**- roles/dataflow.worker =** Provides the permissions necessary for a **Compute Engine** service account to **execute work units for a Dataflow pipeline**.

Lowest-level ressource: **Project level**

**Other:**

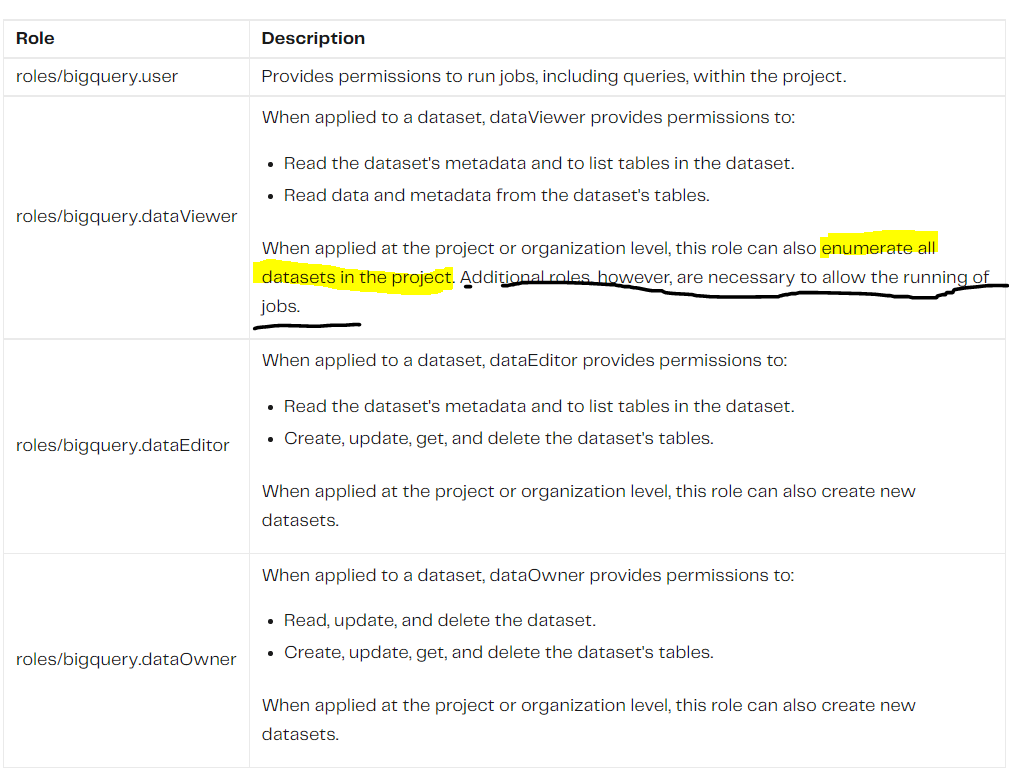


***Cloud Storage:***

IAM granularity: project, bucket, and **OBJECT level**

***BigQuery:***

IAM granularity: project, dataset, **table, column and rows level (Not sure it’s from IAM)**



Note:

