Screenshots:

Game_numbers pipeline:

Job name	beamapp-fengzhixiao-0310152211-065385
Job ID	2020-03-10_08_22_18-17257351395414781677
Job type	Batch
Job status	Succeeded
SDK version	Apache Beam Python 3.7 SDK 2.19.0
Region	us-central1
Start time	March 10, 2020 at 11:22:19 AM GMT-4
Elapsed time	12 min 58 sec
Encryption type	Google-managed key

Resource metrics

Current vCPUs	6
Total vCPU time	0.778 vCPU hr
Current memory	22.5 GB
Total memory time	2.917 GB hr
Current PD	1.46 TB
Total PD time	194.438 GB hr
Current SSD PD	0 B

Job name	beamapp-fengzhixiao-0310152211-065385
Job ID	2020-03-10_08_22_18-17257351395414781677
Job type	Batch
Job status	Succeeded
SDK version	Apache Beam Python 3.7 SDK 2.19.0
Region	us-central1
Start time	March 10, 2020 at 11:22:19 AM GMT-4
Elapsed time	12 min 58 sec
Encryption type	Google-managed key

Resource metrics

Current vCPUs	6
Total vCPU time	0.778 vCPU hr
Current memory	22.5 GB
Total memory time	2.917 GB hr
Current PD	1.46 TB
Total PD time	194.438 GB hr
Current SSD PD	0 B

Game_revenue pipeline:

Job name	beamapp-fengzhixiao-0310173821-242880
Job ID	2020-03-10_10_38_28-2662799780099004681
Job type	Batch
Job status	Succeeded
SDK version	Apache Beam Python 3.7 SDK 2.19.0
Region	us-central1
Start time	March 10, 2020 at 1:38:29 PM GMT-4
Elapsed time	13 min 23 sec
Encryption type	Google-managed key

Resource metrics

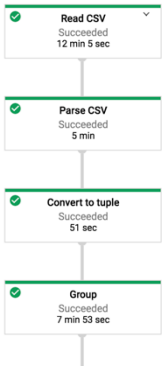
Current vCPUs	6
Total vCPU time	0.789 vCPU hr
Current memory	22.5 GB
Total memory time	2.96 GB hr
Current PD	1.46 TB
Total PD time	197.333 GB hr
Current SSD PD	0 B

Start time	March 10, 2020 at 1:38:29 PM GMT-4
Elapsed time	13 min 23 sec
Encryption type	Google-managed key

Resource metrics

Current vCPUs	6
Total vCPU time	0.789 vCPU hr
Current memory	22.5 GB
Total memory time	2.96 GB hr
Current PD	1.46 TB
Total PD time	197.333 GB hr
Current SSD PD	0 B

Developer_numbers:



Job name	beamapp-fengzhixiao-0310190145-904467
Job ID	2020-03-10_12_01_53-18339685090921420019
Job type	Batch
Job status	Succeeded
SDK version	Apache Beam Python 3.7 SDK 2.19.0
Region	us-central1
Start time	March 10, 2020 at 3:01:54 PM GMT-4
Elapsed time	12 min 50 sec
Encryption type	Google-managed key

Resource metrics

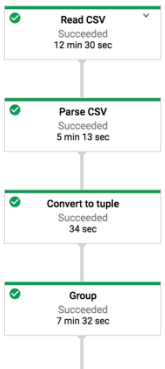
Current vCPUs	6
Total vCPU time	0.816 vCPU hr
Current memory	22.5 GB
Total memory time	3.059 GB hr
Current PD	1.46 TB
Total PD time	203.911 GB hr
Current SSD PD	0 B

Job name	beamapp-fengzhixiao-0310190145-904467
Job ID	2020-03-10_12_01_53-18339685090921420019
Job type	Batch
Job status	Succeeded
SDK version	Apache Beam Python 3.7 SDK 2.19.0
Region	us-central1
Start time	March 10, 2020 at 3:01:54 PM GMT-4
Elapsed time	12 min 50 sec
Encryption type	Google-managed key

Resource metrics

Current vCPUs	6
Total vCPU time	0.816 vCPU hr
Current memory	22.5 GB
Total memory time	3.059 GB hr
Current PD	1.46 TB
Total PD time	203.911 GB hr
Current SSD PD	0 B

Developer revenue:



Job name	beamapp-fengzhixiao-0310201009-339692
Job ID	2020-03-10_13_10_15-7949318926745966916
Job type	Batch
Job status	Succeeded
SDK version	Apache Beam Python 3.7 SDK 2.19.0
Region	us-central1
Start time	March 10, 2020 at 4:10:16 PM GMT-4
Elapsed time	18 min 6 sec
Encryption type	Google-managed key

Resource metrics

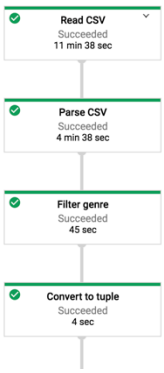
Current vCPUs	6
Total vCPU time	0.844 vCPU hr
Current memory	22.5 GB
Total memory time	3.165 GB hr
Current PD	1.46 TB
Total PD time	211.011 GB hr
Current SSD PD	0 B

Job name	beamapp-fengzhixiao-0310201009-339692
Job ID	2020-03-10_13_10_15-7949318926745966916
Job type	Batch
Job status	Succeeded
SDK version	Apache Beam Python 3.7 SDK 2.19.0
Region	us-central1
Start time	March 10, 2020 at 4:10:16 PM GMT-4
Elapsed time	18 min 6 sec
Encryption type	Google-managed key

Resource metrics

Current vCPUs	6
Total vCPU time	0.844 vCPU hr
Current memory	22.5 GB
Total memory time	3.165 GB hr
Current PD	1.46 TB
Total PD time	211.011 GB hr
Current SSD PD	0 B

Sports_numbers:



Job name	beamapp-fengzhixiao-0311004550-432041
Job ID	2020-03-10_17_45_57-17926325878713542 42
Job type	Batch
Job status	Succeeded
SDK version	Apache Beam Python 3.7 SDK 2.19.0
Region	us-central1
Start time	March 10, 2020 at 8:45:58 PM GMT-4
Elapsed time	11 min 53 sec
Encryption type	Google-managed key

Resource metrics

Current vCPUs	5
Total vCPU time	0.538 vCPU hr
Current memory	18.75 GB
Total memory time	2.017 GB hr
Current PD	1.22 TB
Total PD time	134.454 GB hr
Current SSD PD	0 B

Job name	beamapp-fengzhixiao-0311004550-432041
Job ID	2020-03-10_17_45_57-17926325878713542 42
Job type	Batch
Job status	Succeeded
SDK version	Apache Beam Python 3.7 SDK 2.19.0
Region	us-central1
Start time	March 10, 2020 at 8:45:58 PM GMT-4
Elapsed time	11 min 53 sec
Encryption type	Google-managed key

Resource metrics

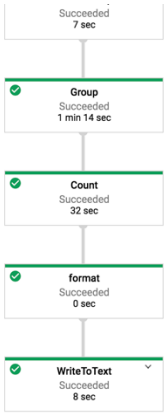
Current vCPUs	5
Total vCPU time	0.538 vCPU hr
Current memory	18.75 GB
Total memory time	2.017 GB hr
Current PD	1.22 TB
Total PD time	134.454 GB hr
Current SSD PD	0 B

Sports_revenue:

Job name	beamapp-fengzhixiao-0311010533-386158
Job ID	2020-03-10_18_05_40-11784191691081179691
Job type	Batch
Job status	Succeeded
SDK version	Apache Beam Python 3.7 SDK 2.19.0
Region	us-central1
Start time	March 10, 2020 at 9:05:41 PM GMT-4
Elapsed time	11 min 24 sec
Encryption type	Google-managed key

Resource metrics

Current vCPUs	4
Total vCPU time	0.529 vCPU hr
Current memory	15 GB
Total memory time	1.985 GB hr
Current PD	1,000 GB
Total PD time	132.345 GB hr
Current SSD PD	0 B

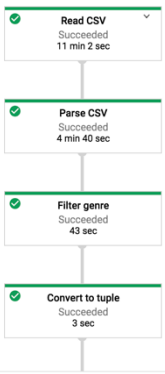


Job name	beamapp-fengzhixiao-0311010533-386158
Job ID	2020-03-10_18_05_40-11784191691081179691
Job type	Batch
Job status	Succeeded
SDK version	Apache Beam Python 3.7 SDK 2.19.0
Region	us-central1
Start time	March 10, 2020 at 9:05:41 PM GMT-4
Elapsed time	11 min 24 sec
Encryption type	Google-managed key

Resource metrics

Current vCPUs	4
Total vCPU time	0.529 vCPU hr
Current memory	15 GB
Total memory time	1.985 GB hr
Current PD	1,000 GB
Total PD time	132.345 GB hr
Current SSD PD	0 B

Sports_developer_number:



Job name	beamapp-fengzhixiao-0311020700-748710
Job ID	2020-03-10_19_07_08-6397012202591358839
Job type	Batch
Job status	Succeeded
SDK version	Apache Beam Python 3.7 SDK 2.19.0
Region	us-central1
Start time	March 10, 2020 at 10:07:09 PM GMT-4
Elapsed time	11 min 27 sec
Encryption type	Google-managed key

Resource metrics

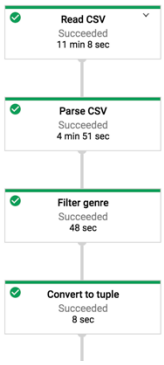
Current vCPUs	4
Total vCPU time	0.528 vCPU hr
Current memory	15 GB
Total memory time	1.982 GB hr
Current PD	1,000 GB
Total PD time	132.107 GB hr
Current SSD PD	0 B

Job name	beamapp-fengzhixiao-0311020700-748710
Job ID	2020-03-10_19_07_08-6397012202591358839
Job type	Batch
Job status	Succeeded
SDK version	Apache Beam Python 3.7 SDK 2.19.0
Region	us-central1
Start time	March 10, 2020 at 10:07:09 PM GMT-4
Elapsed time	11 min 27 sec
Encryption type	Google-managed key

Resource metrics

Current vCPUs	4
Total vCPU time	0.528 vCPU hr
Current memory	15 GB
Total memory time	1.982 GB hr
Current PD	1,000 GB
Total PD time	132.107 GB hr
Current SSD PD	0 B

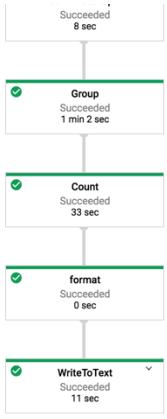
Sports_developer_revenue:



Job name	beamapp-fengzhixiao-0311022845-087060
Job ID	2020-03-10_19_28_52-5932952010132854689
Job type	Batch
Job status	Succeeded
SDK version	Apache Beam Python 3.7 SDK 2.19.0
Region	us-central1
Start time	March 10, 2020 at 10:28:53 PM GMT-4
Elapsed time	12 min 9 sec
Encryption type	Google-managed key

Resource metrics

Current vCPUs	4
Total vCPU time	0.499 vCPU hr
Current memory	15 GB
Total memory time	1.873 GB hr
Current PD	1,000 GB
Total PD time	124.89 GB hr
Current SSD PD	0 B



Job name	beamapp-fengzhixiao-0311022845-087060
Job ID	2020-03-10_19_28_52-5932952010132854689
Job type	Batch
Job status	Succeeded
SDK version	Apache Beam Python 3.7 SDK 2.19.0
Region	us-central1
Start time	March 10, 2020 at 10:28:53 PM GMT-4
Elapsed time	12 min 9 sec
Encryption type	Google-managed key

Resource metrics

Current vCPUs	4
Total vCPU time	0.499 vCPU hr
Current memory	15 GB
Total memory time	1.873 GB hr
Current PD	1,000 GB
Total PD time	124.89 GB hr
Current SSD PD	0 B

Most_purchased_together pipeline:

Job name	beamapp-fengzhixiao-0312165357-989847
Job ID	2020-03-12_09_54_05-11961312038335034080
Job type	Batch
Job status	Succeeded
SDK version	Apache Beam Python 3.7 SDK 2.19.0
Region	us-central1
Start time	March 12, 2020 at 12:54:06 PM GMT-4
Elapsed time	1 hr 22 min
Encryption type	Google-managed key

Resource metrics

Current vCPUs	4
Total vCPU time	5.345 vCPU hr
Current memory	15 GB
Total memory time	20.043 GB hr
Current PD	1,000 GB
Total PD time	1,336.196 GB hr
Current SSD PD	0 B

Job name	beamapp-fengzhixiao-0312165357-989847
Job ID	2020-03-12_09_54_05-11961312038335034080
Job type	Batch
Job status	Succeeded
SDK version	Apache Beam Python 3.7 SDK 2.19.0
Region	us-central1
Start time	March 12, 2020 at 12:54:06 PM GMT-4
Elapsed time	1 hr 22 min
Encryption type	Google-managed key

Resource metrics

Current vCPUs	4
Total vCPU time	5.345 vCPU hr
Current memory	15 GB
Total memory time	20.043 GB hr
Current PD	1,000 GB
Total PD time	1,336.196 GB hr
Current SSD PD	0 B

Job name	beamapp-fengzhixiao-0312165357-989847
Job ID	2020-03-12_09_54_05-11961312038335034080
Job type	Batch
Job status	Succeeded
SDK version	Apache Beam Python 3.7 SDK 2.19.0
Region	us-central1
Start time	March 12, 2020 at 12:54:06 PM GMT-4
Elapsed time	1 hr 22 min
Encryption type	Google-managed key

Resource metrics

Current vCPUs	4
Total vCPU time	5.345 vCPU hr
Current memory	15 GB
Total memory time	20.043 GB hr
Current PD	1,000 GB
Total PD time	1,336.196 GB hr
Current SSD PD	0 B