

# **CIS 9440 - Data Warehousing and Analytics**

**Class #7**





# ETL Poll






# Midterm Exam next week

- Date: Wednesday, October 26th
- Time: 6:00pm - 8:00pm ET
- Location: Remote, on Blackboard
- Format: Short answer, multiple choice, matching
- Open book and notes: yes, you may use all class material
- Percent of Final Grade: 10%




## **Week 7 Class Overview:**

1. Getting Latitude and Longitude in python
  2. Creating BigQuery Service Account Key
  3. ETL Workshop #2
- 



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# Latitude and Longitude in python

- Lat and Long are valuable fields to have for BI
  - You can plot your locations easily in Tableau with Lat and Long
- Open a Jupyter Notebook to get started
  - .ipynb file on Blackboard now



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# Create a new GCP Service Account



CIS9440



service account

ALL

DOCUMENTATION & TUTORIALS

MARKETPLACE & APIS

## Search results

Showing 30 of 87 results for "service account".



### Service Accounts

IAM & Admin

Type: Product or Page

Product: IAM & Admin





# Create a new Key as a JSON

- Click on your Service Account -> go to Keys tab -> create new Key as JSON

[←](#) CIS9440-Access

DETAILS


PERMISSIONS

KEYS

METRICS

LOGS



### Keys

 Service account keys could pose a security risk if compromised. We recommend you avoid downloading service account keys from Google Cloud [here](#).

Add a new key pair or upload a public key certificate from an existing key pair.


Block service account key creation using [organization policies](#).  
[Learn more about setting organization policies for service accounts](#)

ADD KEY ▾

Type	Status	Key	Key creation date	Key expiration date
	 Active		Oct 12, 2021	Dec 31, 9999



## Week 7 Class Overview:

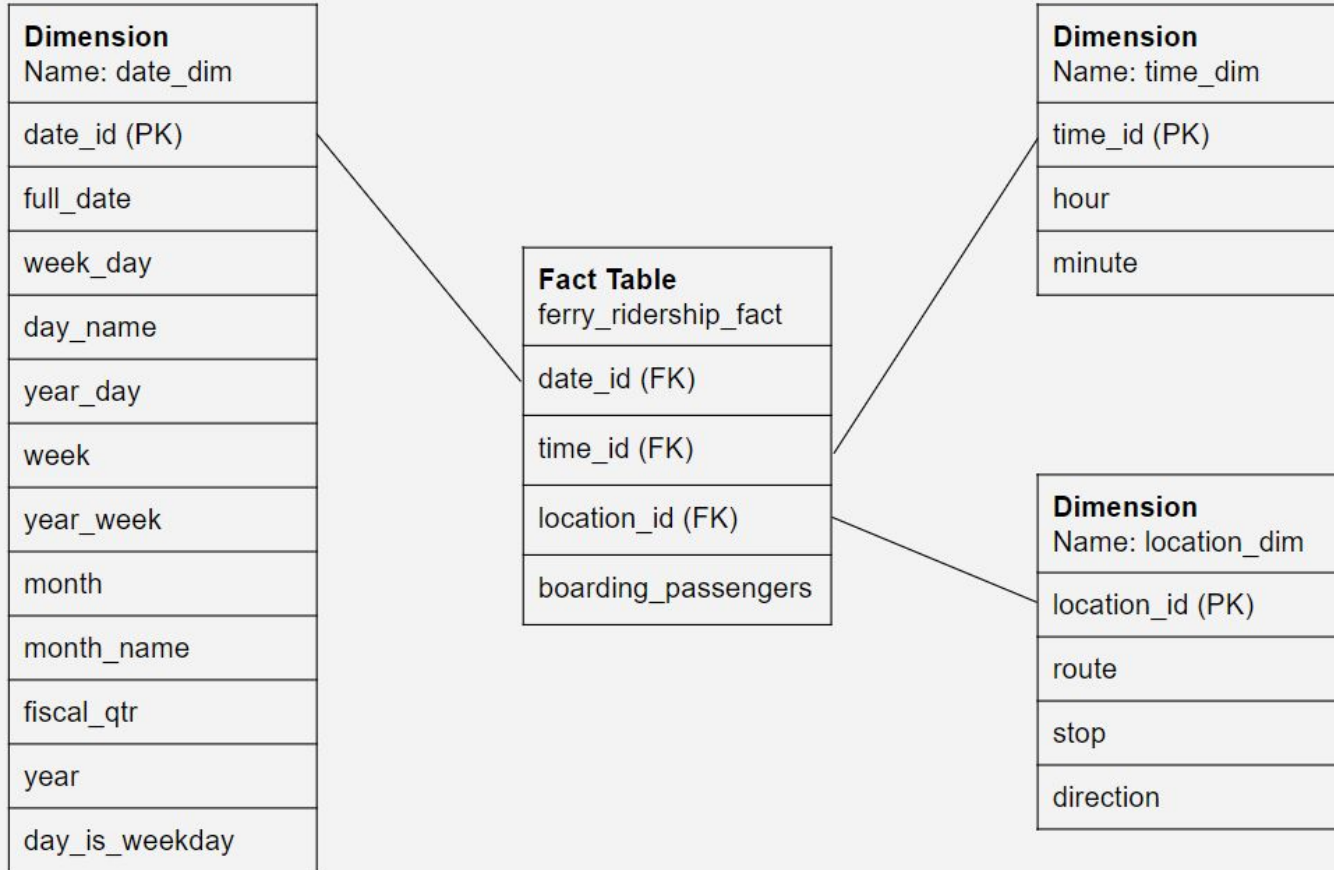
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# ETL Workshop details



- Download and open the Jupyter Notebook “ETL\_workshop\_2” in this week’s Blackboard folder
- NYC Open Data dataset: [NYC Ferry Ridership](#)
- Dimensional Model: [link](#)
- NYC Open Data App Token: [link](#)
- Dimensional Model KPI’s:
  - Boarding Passengers by Day
  - Boarding Passengers by Hour
  - Boarding Passengers by Stop
  - Ferry Stops by Route

# ETL Workshop - Dimensional Model



# Homework:

1. Homework Assignment #2 on Blackboard, due 11/2/22
2. Final Project Milestone #3 on Blackboard, due 11/9/22