UNIT 5.4 GRADED ASSIGNMENT

Group members

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UNIT 5.4 GRADED ASSIGNMENT

Task:

Use data from today's Daily Activities tasks/5_data_pipelines/day_4_data_lake/data/output_data/employee_earnings

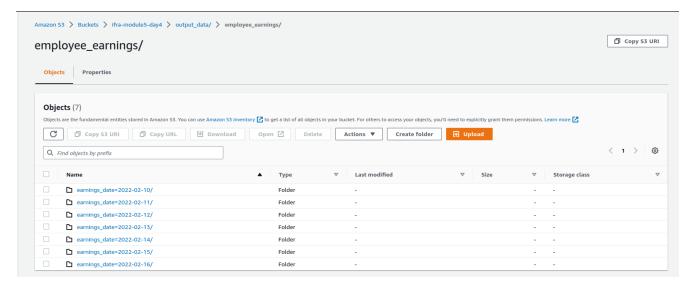
Using the data manipulation tool of your choice (eg. Python) simulate the earnings predictions for 2 more days. Load it to the Data Lake that you've created today (Task 1-2).

Rerun queries from Task 3 and Task 4 and see how the results change with this new data.

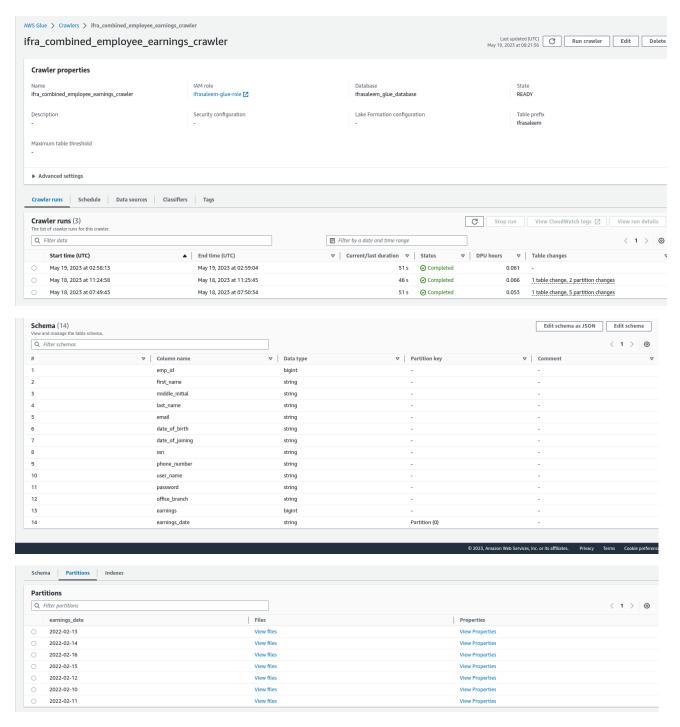
Create a new query in Athena that calculates the % change in earnings for every employee from a given day compared to the previous day.

Solution:

Uploaded two new folders to S3 Bucket.



Run the Crawler again:

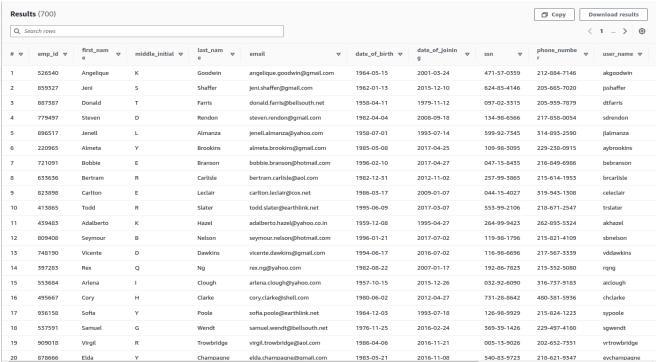


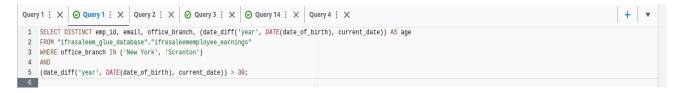
Rerun queries from Task 3 and Task 4:

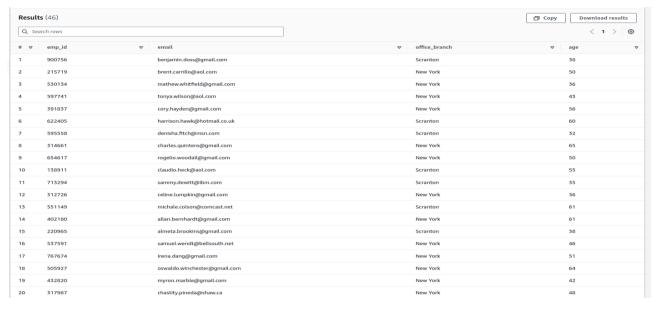
The screenshots are attached for the result of queries of previous data.

Task 3:



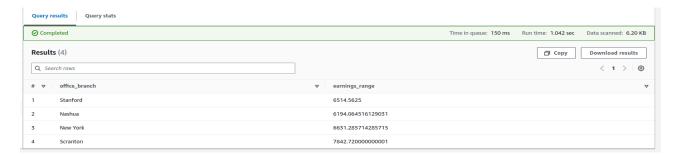






Query 1 : X | Query 2 : X | Query 3 : X | Query 3 : X | Query 4 : X | Query 4 : X | Yes | Query 4 : X | Query 4 : X | Yes | Ye

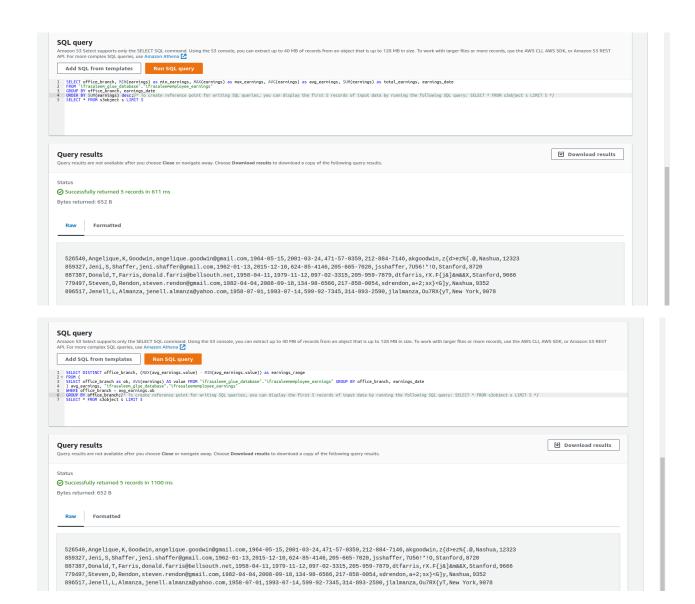
Result	s (28)										Download r	esults
Q Sea	rch rows										< 1	> @
# 🔻	office_branch	∇	min_earnings	∇	max_earnings	▽	avg_earnings	▽	total_earnings		▼ earnings_date	▽
1	Nashua		5234		19135		11813.967741935483		366233		2022-02-16	
2	Nashua		4101		18006		11617.870967741936		360154		2022-02-15	
3	New York		5989		18901		12246.82142857143		342911		2022-02-16	
4	New York		4605		19150		11989.5		335706		2022-02-15	
5	Scranton		6444		17504		12894.04		322351		2022-02-16	
6	Scranton		4521		18219		11056.88		276422		2022-02-15	
7	Stanford		7846		18576		12078.9375		193263		2022-02-15	
8	Nashua		2098		9728		6099.8387096774195		189095		2022-02-14	
9	Nashua		2005		9786		6049.451612903225		187533		2022-02-13	
10	Stanford		6063		17919		11706.5625		187305		2022-02-16	
11	Nashua		2006		9603		5997.967741935484		185937		2022-02-11	
12	New York		2295		9889		6631.285714285715		185676		2022-02-12	
13	Nashua		2124		9978		5764.5161290322585		178700		2022-02-12	
14	Nashua		2066		9801		5619.903225806452		174217		2022-02-10	
15	New York		2040		9954		6109.035714285715		171053		2022-02-14	
16	Scranton		2788		9916		6830.6		170765		2022-02-13	
17	New York		2141		9462		5998.178571428572		167949		2022-02-11	
18	New York		2376		9972		5991.321428571428		167757		2022-02-10	
19	New York		2195		9734		5615.535714285715		157235		2022-02-13	
20	Scranton		2465		9827		6149.72		153743		2022-02-14	



Task 4:







Create a new query in Athena that calculates the % change in earnings for every employee from a given day compared to the previous day.

