UNIT 5.4 GRADED ASSIGNMENT

Group members

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Task:

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

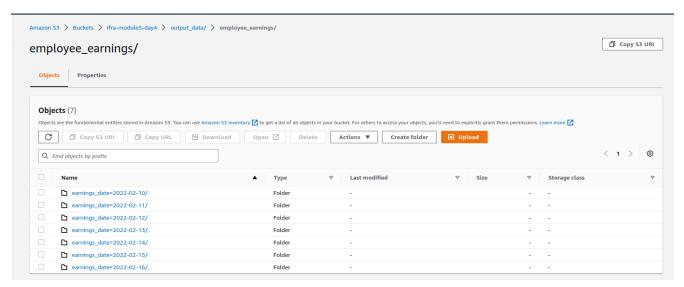
Using the data manipulation tool of your choice (eg. Python) simulate the earnings predictions for 2 more days. Load it to the Data Lake that you've created today (Task 1-2).

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

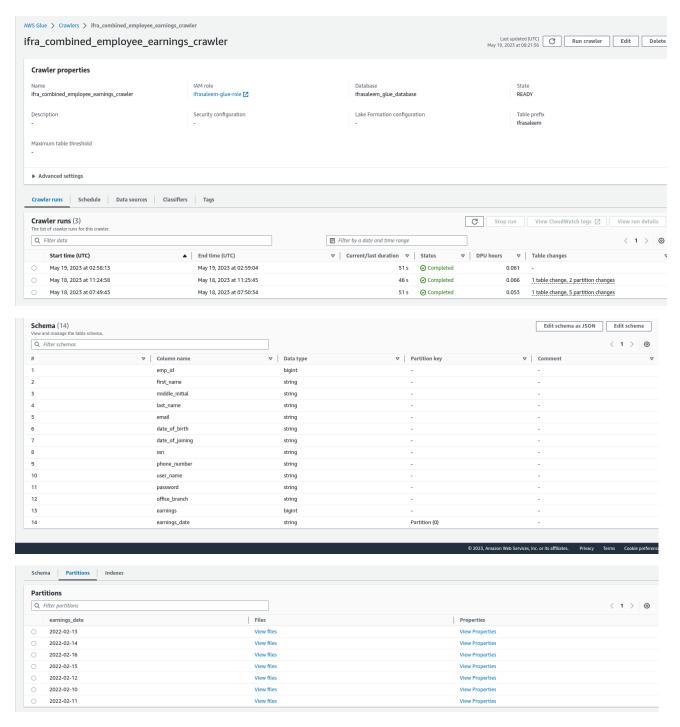
Create a new query in Athena that calculates the % change in earnings for every employee from a given day compared to the previous day.

Solution:

Uploaded two new folders to S3 Bucket.



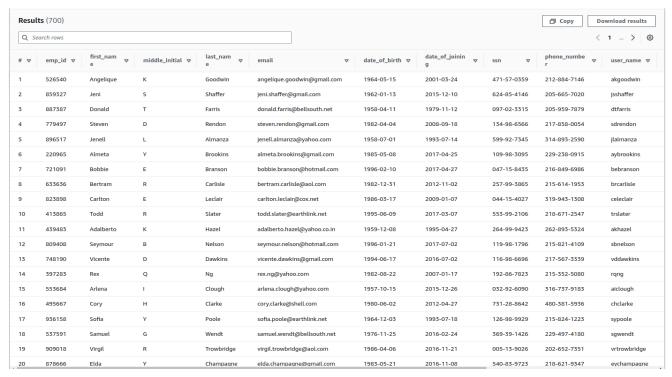
Run the Crawler again:

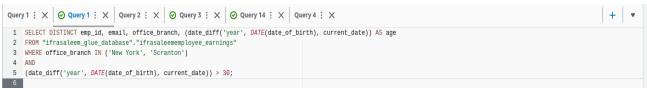


Rerun queries from Task 3 and Task 4:

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

Task 3:





Results (46)				Copy Download results
Q. Search rows				
# 🛡	emp_id	▽ email	▼ office_branch	♥ age ♥
1	900756	benjamin.doss@gmail.com	Scranton	38
2	215719	brent.carrillo@aol.com	New York	50
3	530134	mathew.whitfield@gmail.com	New York	36
4	597741	tonya.wilson@aol.com	New York	43
5	391837	cory.hayden@gmail.com	New York	56
6	622405	harrison.hawk@hotmail.co.uk	Scranton	60
7	595558	denisha.ftch@msn.com	Scranton	32
8	314661	charles.quintero@gmail.com	New York	65
9	654617	rogelio.woodall@gmail.com	New York	50
10	138911	claudio.heck@aol.com	Scranton	55
11	713294	sammy.dewitt@ibm.com	Scranton	35
12	312726	celine.lumpkin@gmail.com	New York	36
13	551149	michale.colson@comcast.net	Scranton	61
14	402180	allan.bernhardt@gmail.com	New York	61
15	220965	almeta.brookins@gmail.com	Scranton	38
16	537591	samuel.wendt@bellsouth.net	New York	46
17	767674	irena.dang@gmail.com	New York	51
18	505927	oswaldo.winchester@gmail.com	New York	64
19	432820	myron.marble@gmail.com	New York	42
20	317987	chastity.pineda@shaw.ca	New York	48

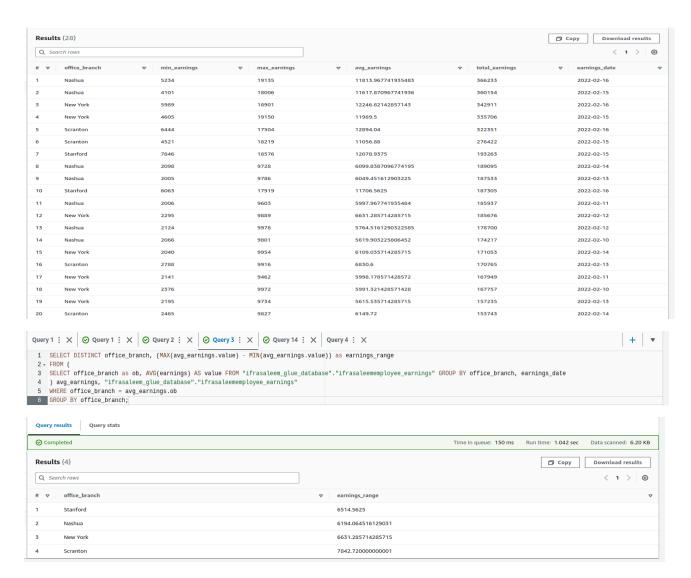
Query 1 : X | Query 2 : X | Query 3 : X | Query 3 : X | Query 4 : X | + | ▼

SELECT office_branch, MIN(earnings) as min_earnings, MAX(earnings) as max_earnings, AVG(earnings) as avg_earnings, SUM(earnings) as total_earnings, earnings_date

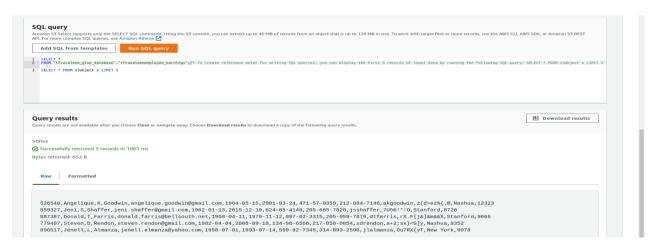
FROM "ifrasaleem_glue_database"."ifrasaleememployee_earnings"

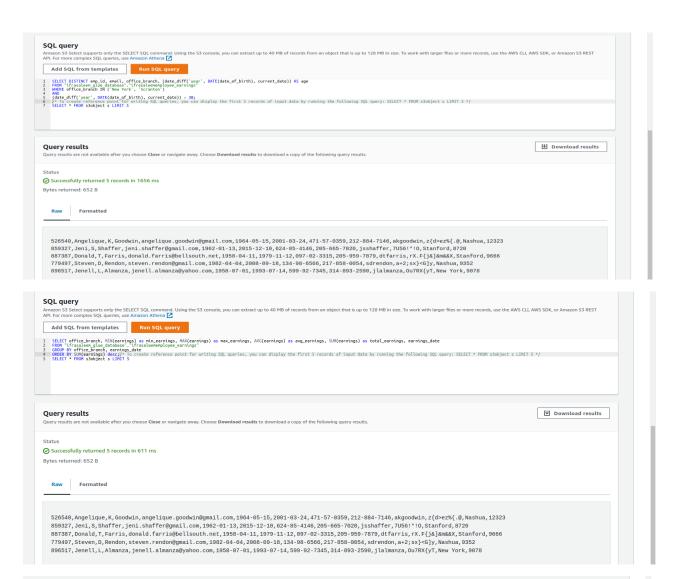
GROUP BY Office_branch, earnings_date

ORDER BY SUM(earnings) desc;



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.

