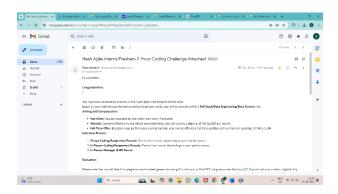
1. Selfie Pic: Add a selfie taken during the test right after your name.

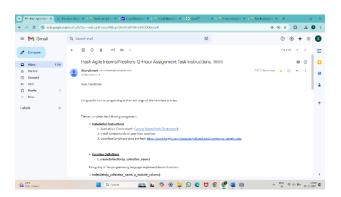




2. First Task Email Screenshot: Insert the screenshot of the first task email.



3. Second Task Email Screenshot: Insert the screenshot of the second task email



- 4. GitHub URL for Round 1: Add the link to your GitHub repository for Round 1. <a href="https://github.com/Suhithakc/Hash-agile">https://github.com/Suhithakc/Hash-agile</a>
- 5. GitHub URL for Assignment: Add the link to your GitHub repository for the assignment code.

https://github.com/Suhithakc/Hash-Agile-round2

6. Function Execution Results: For each step (a-n), provide input, output, and screenshots of the execution.

```
from elasticsearch import Elasticsearch
  import pandas as pd
  # Initialize the Elasticsearch client with the specified host
es = Elasticsearch(["http://localhost:9200"])
✓ 2.6s
                                                                                                                                    Python
  def create_collection(collection_name):
 es.indices.create(index=collection_name, ignore=400)
✓ 0.4s
                                                                                                                                    Python
  def index_data(collection_name, exclude_column):
      df = pd.read_csv('C:/Users/krish/OneDrive/Desktop/Hash Agile Task/Employee Sample Data 1.csv', encoding='ISO-8859-1')
      df = df.drop(columns=[exclude_column], errors='ignore')
      df = df.dropna()
       for _, row in df.iterrows():
          es.index(index=collection_name, document=row.to_dict())
  0.4s
                                                                                                                                    Pytho
```

## **OUTPUT**

```
Creating Collections...

Getting Employee Count...

Employee Count in hash_yourname: 1101

Indexing Data...

C:\Users\krish\AppData\Local\Temp\ipykernel_4140\1341851630.py:2: DeprecationWarning: Passing transport options in the API method is deprecated. Use 'Elasticsearch.options()' instead.

es.indices.create(index=collection_name, ignore=400)

Getting Updated Employee Count...

Updated Employee Count in hash_yourname: 1201

Searching by Department 'IT'...

Search Results for Department 'IT':

{'took': 5, 'timed_out': False, '_shards': {'total': 1, 'successful': 1, 'skipped': 0, 'failed': 0}, 'hits': {'total': {'value': 0, 'relation': 'eq'}, 'max_score': None, 'hits': []}}
```

## Searching by Gender 'Male'...

Search Results for Gender 'Male':

('took': 6, 'timed\_out': False, 'shards': ('total': 1, 'successful': 1, 'skipped': 0, 'failed': 0), 'hits': ('total': ('value': 603, 'relation': 'eq'), 'max\_score': 0.68649703, 'hits': [('index': 'hash\_yourname', 'id': 'shipp:IBJabhiCRmppIT0', 'score': 0.68649703, 'source': ('Employee ID': 'F02002', 'Full Name': 'kaite', 'lob Title': 'Controls Engineer', 'Business Unit': 'Nanufacturing', 'Gender': 'Nale', 'Store': 0.68649703, 'source': ('Employee ID': 'E02003', 'Full Name': Robert Patel', 'Job Title': 'Analyst', 'Business Unit': 'Groprorate', 'Gender': 'Nale', 'Ethnicity': 'Asian', 'Age': 58.0, 'Nitro Date': 10/23/2013', 'Hill Name': Robert Patel', 'Job Title': 'Analyst', 'Business Unit': 'Groprorate', 'Gender': 'Nale', 'Ethnicity': 'Asian', 'Age': 58.0, 'Nitro Date': 10/23/2013', 'Shardhai', 'Exit Date': None), ('index': 'hash yourname', 'id': 'stipp:IBJahkiCRmpQC', 'score': 0.68649703, 'source': ('Employee ID': 'Groprorate', 'Nitro Date': '3/4/2019', 'Annual Salary': '\$43,576', 'Bouns X': 'Grop', 'Nonus X': 'Grop', 'Nonus X': 'Grop', 'Nonus X': 'Grop', 'Annual Salary': 'S43,576', 'Bouns X': 'Grop', 'China', 'Griy: 'Shanghai', 'Exit Date': None), ('index': hash yourname', 'id': 'dipr:IBJahkiCRmpQCu', 'score': 0.68649703, 'source': ('Employee ID': 'E02007', 'Full Name': 'Ezra Vu', 'lob Title': Network Administrator', 'Business Unit': 'Nanufacturing', 'Gender': 'Nale', 'Ethnicity': 'Asian', 'Age': 62.0, 'Hire Date': '4/22/20041', 'Annual Salary': '\$69,672 ', 'Source': ('Employee ID': 'E02009', 'Full Name': 'Yale', 'State': 'Analyst II', 'Business Unit': 'Corporate', 'Gender': 'Male', 'Ethnicity': 'Asian', 'Age': 62.0, 'Hire Date': 'Ale', 'Country': 'United States', 'Griy: 'States', 'Griy: 'States', 'Griy: 'Gender': 'Nale', 'Gender': 'Nale', 'Groprate', 'Gender': 'Male', 'Ethnicity': 'Asian', 'Age': 62.0, 'Hire Date': 'Ale', 'Gender': 'Male', 'Ethnicity': 'Asian', 'Age': 62.0, 'Hire Date': 'Ale', 'Gender': 'Male', 'Ethnicity': 'Asian', 'Age': 62.0, 'Hire Date': 'Ale', 'Gender': 'Male', 'Ethnicity': 'Asian', 'Age'

## Getting Department Facets for Name Collection...

Department Facets for Name Collection:

('took': 3, 'timed\_out': False, '\_shards': {'total': 1, 'successful': 1, 'skipped': 0, 'failed': 0}, 'hits': {'total': {'value': 1201, 'relation': 'eq'}, 'max\_score': None, 'hits': []}, 'aggregations': {'departments': {'doc\_count\_error\_upper\_bound': 0, 'sum\_other\_doc\_count': 0, 'buckets': []}}}
Getting Department Facets for Phone Collection...

Department Facets for Phone Collection:

{'took': 98, 'timed\_out': False, '\_shards': {'total': 1, 'successful': 1, 'skipped': 0, 'failed': 0}, 'hits': {'total': {'value': 412, 'relation': 'eq'}, 'max\_score': None, 'hits': []}, 'aggregations': {'departments': {'doc\_count\_error\_upper\_bound': 0, 'sum\_other\_doc\_count': 0, 'buckets': [{'key': 'IT', 'doc\_count': 156}, {'key': 'Accounting', 'doc\_count': 52}, {'key': 'Engineering', 'doc\_count': 52}, {'key': 'Finance', 'doc\_count': 48}, {'key': 'Human Resources', 'doc\_count': 48}, {'key': 'Sales', 'doc\_count': 36}, {'key': 'Marketing', 'doc\_count': 20}]}}}

## Searching Phone Collection by Department 'IT'...

Search Results in Phone Collection for Department 'IT':

{'took: 388, 'timed\_out': False, 'shards': ('total: 1, 'successful': 1, 'skipped': 0, 'failed': 0), 'hits': ('total': {'value': 156, 'relation': 'ed'},
'max\_score': 1.0136626, 'hits': {{' index': 'hash yourphonelastFourdigits', 'id': 'MITr71BJahXiCNar-hc', 'score': 1.0136626, 'source': {'Employee ID':
'E02007', 'Full Name': 'Ezra Vu', 'Job Title': 'Network Administrator', 'Department': 'IT', 'Business Unit': 'Manufacturing', 'Ethnicity': 'Asian', 'Age': 62.0,
'Mire Date': 'A/22/2004', 'Annual Salary': '\$66,227', 'Bonus X': '0X', 'Country': 'United States', 'City': 'Phoenix', 'Extl Date': '2/14/2014'}}, {' index': 'hash yourphonelastFourdigits', 'id': 'M91r71BJahXiCNamogoz', 'score': 1.0136626, 'source': {'Employee ID': 'E02023', 'Full Name': 'Illian Lewis', 'Job
Title': 'Technical Architect', 'Department': 'IT', 'Business Unit': 'Research & Development', 'Ethnicity': 'Malack', 'Age': 43.0, 'Hire Date': '8/14/2013',
'Annual Salary': '\$33,323', 'Bonus X': '0X', 'Country': 'United States', 'City': 'Phoenix', 'Extl Date': '3/31/2019'}}, {' index': 'hash yourphonelastFourdigits', 'id': 'Pd1r71BJahXiCNamoMy', 'score': 1.0136626, 'source': {'Employee ID': 'E02127', 'Full Name': 'Zoey Leung', 'Job Title': 'Network Administrator', 'Department': 'IT', 'Business Unit': 'Research & Development', 'Ethnicity': 'Asian', 'Age': 40.0, 'Hire Date': '9/27/2007', 'Annual Salary': '\$77,637', 'Bonus X': '0X', 'Country': 'China', 'City': 'China', 'City': 'Resparth & Development', 'Ethnicity': 'Asian', 'Age': 52.0, 'Hire Date': '2/4/2017'}}, ('Ill Name': 'M91r91BJahXiCNamoJi', 'Separtment': 'IT', 'Business Unit': 'Research & Development', 'Ethnicity': 'Asian', 'Age': 52.0, 'Hire Date': '3/12/2013', 'Annual Salary': '\$918730', 'Sourtey': 'Brazil', 'City': 'Manua', 'Exit Date': '9/19/2017'}, 'Annual Salary': '\$918730', 'Sourtey': 'Brazil', 'City': 'Manua', 'Exit Date': '9/19/2017'}, 'Annual Salary': '\$90, 'Soure': 'Employee ID': 'B02236', 'Business Unit': 'Research & Development', 'Ethnicity': 'Asian', 'Age': 30.0, 'Hire Date': '9/19/20