ELASTICSEARCH

LOCAL HOST

```
"name" : "node-1",
  "cluster_name" : "my-application",
  "cluster_uuid" : "1dDQnDPiQ3-GzclWuYtwoA",
  "version" : {
      "number" : "8.15.2",
      "build_flavor" : "default",
      "build_type" : "zip",
      "build_hash" : "98adf7bf6bb69b66ab95b761c9e5aadb0bb059a3",
      "build_date" : "2024-09-19T10:06:03.564235954Z",
      "build_snapshot" : false,
      "lucene_version" : "9.11.1",
      "minimum_wire_compatibility_version" : "7.17.0",
      "minimum_index_compatibility_version" : "7.0.0"
},
    "tagline" : "You Know, for Search"
```

CODE

```
os.path.exists(csv_file_path):
    print("File found, attempting to load...")
    try:
      df = pd.read_csv(csv_file_path, encoding='latin1')
    print("CSV file loaded successfully.")
except UnicodeDecodeError as e:
    print(f"Error reading CSV file due to encoding issue: {e}")
else:
      print(f"File not found at {csv_file_path}")
def convert_to_datetime(date_str):
    if isinstance(date_str, str):
                   return datetime.strptime(date_str, '%m/%d/%Y').isoformat()
            except ValueError:
    print(f"Error processing date: {date_str}")
    return None
      else:
             return None
if 'Hire Date' in df.columns:
    df['Hire Date'] = df['Hire Date'].apply(convert_to_datetime)
if 'Exit Date' in df.columns:
    df['Exit Date'] = df['Exit Date'].apply(convert_to_datetime)
def clean_salary(salary_str):
    if isinstance(salary_str, str):
             try:
                   return int(salary_str.replace('$', '').replace(',', '').strip())
             except ValueError:
    print(f"Error processing salary: {salary_str}")
    return None
      return None
if 'Annual Salary' in df.columns:
    df['Annual Salary'] = df['Annual Salary'].apply(clean_salary)
```

EXECUTION

```
(c) Microsoft Corporation. All rights reserved.
C:\Users\nilof\Downloads>n.py
File found, attempting to load...
CSV file loaded successfully.
```

OUTPUT

```
"source": {
    "mployee ID": mull,
    "rul Hame": "non",
    "more The Marker Than Resources",
    "Business Unit": "Specialty Products",
    "Gender": "Female",
    "thinkity": "Gucasian",
    "age": 33,
    "Hire Date": mull,
    "Annual Salary": mull,
    "Romus X": mull,
    "Country': "United States",
    "city": "Mianat',
    "source": "No "source",
    "id": "ROMMTpIBVLFSwLAGAil",
    "source": 1.0,
    "source": 1.0,
    "source in ("non")
    "Business Unit": "Specialty Products",
    "Gender": "Male: ""source in ("non")
    "Business Unit": "Specialty Products",
    "Gender": "Male: ""source in ("non")
    "thinkity": "Misin',
    "age": 39,
    "Hire Date": mull,
    "Romual Salary": cull,
    Romus Shiri": "Specialty Products",
    "Gender": "Male: ""source in ("non")
    "source": "Male: "Misin',
    "age": 39,
    "Hire Date : mull,
    "Romual Salary": cull,
    "Romual Salary": cull,
    "source": "Male: "Male: "Specialty Products",
    "source": "Male: "Ma
```

```
"Ethnicity": "Asian",
   "Age": 39,
   "Hire Date": null,
   "Annual Salary": null,
   "Bonus %": null,
   "Country": "United States",
   "City": "Austin",
   "Exit Date": null
}

// "_index": "my_csv_index",
   "_id": "d04XTpIBVLfX5wZA_Snb",
   "_score": 1.0,
   "_source": {
        "Employee ID": null,
        "rull Name": "nan",
        "Job Title": "Manager",
        "Department": "IT",
        "Business Unit": "Specialty Products",
        "Gender": "Female",
        "Ethnicity": "Latino",
        "Age": 64,
        "Hire Date": null,
        "Annual Salary": null,
        "Bonus %": null,
        "Country": "United States",
        "City": "Miami",
        "Exit Date": null
}
```