

Index Mapping in Elasticsearch

Field(s):

- Timestamp
- Age
- Industry
- job_title
- annual_salary
- Currency
- location
- Work_experience
- Job_context
- Other_currency

Mapping Data Type:

- Timestamp : String(text)
- Age : String(text)
- Industry : String(text)
- job_title : String(text)
- annual_salary : String(text)
- Currency : String(text)
- location : String(text)
- Work_experience : String(text)
- Job_context : String(text)
- Other_currency : String(text)

Reason/Justification of taking these fields and its types:

Age: Should be of “date” type but in the csv it is given as a range of numbers with a “-”.

Work Experience: Should be of “date” type but in the csv it is given as a range of numbers with a “-”.

Annual salary: Can be stored as “integer/float” but many of them were provided as numbers and “\$” sign.

Timestamp: Should be of date type, but due to lack of standard format(missing 'T' for timestamp in date).

Timestamp	How old are you?	What industry do you	Job title	What is your annual	Please indicate the	Where are you locat	How many years of p	If your job title need	If "Other," please ind
4/24/2019 11:43:21	35-44	Government	Talent Management	75000	USD	Nashville, TN	11 - 20 years		
4/24/2019 11:43:26	25-34	Environmental nonp	Operations Director	65,000	USD	Madison, WI	8 - 10 years		
4/24/2019 11:43:27	18-24	Market Research	Market Research Ass	36,330	USD	Las Vegas, NV	2 - 4 years		
4/24/2019 11:43:27	25-34	Biotechnology	Senior Scientist	34600	GBP	Cardiff, UK	5-7 years		
4/24/2019 11:43:29	25-34	Healthcare	Social worker (embe	55000	USD	Southeast Michigan,	5-7 years		
4/24/2019 11:43:29	25-34	Information Manage	Associate Consultant	45,000	USD	Seattle, WA	8 - 10 years		
4/24/2019 11:43:30	25-34	Nonprofit	Development Manag	51,000	USD	Dallas, Texas, Unite	2 - 4 years	I manage our fundraising department, prin	
4/24/2019 11:43:30	25-34	Higher Education	Student Records Coc	54,371	USD	Philadelphia	8 - 10 years	equivalent to Assistant Registrar	
4/24/2019 11:43:34	35-44	Libraries	Director	45000	USD	Bridgeport, mi. Usa	8 - 10 years		
4/24/2019 11:43:35	25-34	Business Services	Copywriter	80000	USD	DC	11 - 20 years		
4/24/2019 11:43:35	35-44	construction fastener	office manager	72,000	USD	Brick NJ	21 - 30 years	I do sales and stock management as well -	
4/24/2019 11:43:35	25-34	Mental Health	HR and Administrative	50,000	USD	Baltimore, Maryland	5-7 years	one-man HR department and oversee adm	
4/24/2019 11:43:37	25-34	Telecommunication	Marketing Manager	73 000\$	CAD	Montreal, QC, Canac	8 - 10 years		
4/24/2019 11:43:37	25-34	Market research	Senior research exec	30,000	GBP	London, UK	5-7 years		
4/24/2019 11:43:38	25-34	Education	Teacher	54000	USD	Geirgia	8 - 10 years		
4/24/2019 11:43:39	35-44	Business Consulting	Senior Consultant	\$75,000.00	USD	New Jersey, USA	11 - 20 years	Technical Writer	
4/24/2019 11:43:39	25-34	Higher Ed	Associate Professor	52,000	USD	Pittsburgh/PA/USA	8 - 10 years	Community College	
4/24/2019 11:43:39	35-44	communications	community investme	68000	CAD	ottawa, ontario, cana	8 - 10 years		
4/24/2019 11:43:40	35-44	Film & Television	Visual Effects Comp	50,000	CAD	Toronto/ON/Canada	2 - 4 years		
4/24/2019 11:43:41	25-34	media	senior marketing mar	90000	USD	Washington, DC	8 - 10 years		
4/24/2019 11:43:42	25-34	Publishing	Assistant Media Edit	\$41,000.00	USD	New York, NY, USA	2 - 4 years		
4/24/2019 11:43:42	25-34	Non-profit	Assistant Director of	\$67,500.00	USD	Boston, MA, USA	5-7 years		

The screenshot shows the Elastic Dev Tools interface. The left pane displays a REST client with a series of requests. The right pane shows the JSON response for the selected request: `GET /_mapping`. The response is a JSON object representing the mapping for the `schema_for_compensation_data_1` index.

```

1 GET /_cat/indices?v
2 GET /_cluster/allocation/explain?pretty
3
4 GET /_cat/shards?v
5
6 PUT /_settings
7 {
8
9   | "index" : {
10
11     | | "number_of_replicas" : 0
12
13   | }
14
15 }
16
17
18 GET /schema_for_compensation_data_1/_count
19
20
21 GET /api/v1/api-docs/spec.json
22
23 GET /schema_for_compensation_data_1/_mapping
24
25
26
27
28
29
30
31
32
33
34
35
36
37 GET /schema_for_compensation_data_1/_search
38 {
39   "query" : {
40     "query_string" : {
41       "query" : "*Engineer*",
42       "fields" : ["job_title"]
43     }
44   }
45 }

```

The response JSON is as follows:

```

1 {
2   "schema_for_compensation_data_1": {
3     "mappings": {
4       "properties": {
5         "@timestamp": {
6           "type": "date"
7         },
8         "@version": {
9           "type": "text",
10          "fields": {
11            "keyword": {
12              "type": "keyword",
13              "ignore_above": 256
14            }
15          }
16        },
17        "age": {
18          "type": "text",
19          "fields": {
20            "keyword": {
21              "type": "keyword",
22              "ignore_above": 256
23            }
24          }
25        },
26        "annual_salary": {
27          "type": "text",
28          "fields": {
29            "keyword": {
30              "type": "keyword",
31              "ignore_above": 256
32            }
33          }
34        },
35        "column11": {
36          "type": "text",
37          "fields": {
38            "keyword": {
39              "type": "keyword",
40              "ignore_above": 256
41            }
42          }
43        },
44        "column12": {
45          "type": "text",

```

Mapping data:

```

{
  "schema_for_compensation_data_1": {
    "mappings": {
      "properties": {
        "@timestamp": {
          "type": "date"
        },
        "@version": {
          "type": "text",
          "fields": {
            "keyword": {

```

```
      "type": "keyword",
      "ignore_above": 256
    }
  },
  "age": {
    "type": "text",
    "fields": {
      "keyword": {
        "type": "keyword",
        "ignore_above": 256
      }
    }
  },
  "annual_salary": {
    "type": "text",
    "fields": {
      "keyword": {
        "type": "keyword",
        "ignore_above": 256
      }
    }
  },
  "column11": {
    "type": "text",
    "fields": {
      "keyword": {
        "type": "keyword",
        "ignore_above": 256
      }
    }
  },
  "column12": {
    "type": "text",
    "fields": {
      "keyword": {
        "type": "keyword",
        "ignore_above": 256
      }
    }
  },
  "column13": {
    "type": "text",
    "fields": {
      "keyword": {
        "type": "keyword",
        "ignore_above": 256
      }
    }
  },
  "column14": {
    "type": "text",
    "fields": {
      "keyword": {
        "type": "keyword",
```

```
      "ignore_above": 256
    }
  }
},
"currency": {
  "type": "text",
  "fields": {
    "keyword": {
      "type": "keyword",
      "ignore_above": 256
    }
  }
},
"event": {
  "properties": {
    "original": {
      "type": "text",
      "fields": {
        "keyword": {
          "type": "keyword",
          "ignore_above": 256
        }
      }
    }
  }
},
"host": {
  "properties": {
    "name": {
      "type": "text",
      "fields": {
        "keyword": {
          "type": "keyword",
          "ignore_above": 256
        }
      }
    }
  }
},
"industry": {
  "type": "text",
  "fields": {
    "keyword": {
      "type": "keyword",
      "ignore_above": 256
    }
  }
},
"job_context": {
  "type": "text",
  "fields": {
    "keyword": {
      "type": "keyword",
      "ignore_above": 256
    }
  }
}
```

```
}
},
"job_title": {
  "type": "text",
  "fields": {
    "keyword": {
      "type": "keyword",
      "ignore_above": 256
    }
  }
},
"location": {
  "type": "text",
  "fields": {
    "keyword": {
      "type": "keyword",
      "ignore_above": 256
    }
  }
},
"log": {
  "properties": {
    "file": {
      "properties": {
        "path": {
          "type": "text",
          "fields": {
            "keyword": {
              "type": "keyword",
              "ignore_above": 256
            }
          }
        }
      }
    }
  }
},
"message": {
  "type": "text",
  "fields": {
    "keyword": {
      "type": "keyword",
      "ignore_above": 256
    }
  }
},
"other_currency": {
  "type": "text",
  "fields": {
    "keyword": {
      "type": "keyword",
      "ignore_above": 256
    }
  }
},
}
```

```
"tags": {  
  "type": "text",  
  "fields": {  
    "keyword": {  
      "type": "keyword",  
      "ignore_above": 256  
    }  
  }  
},  
"timestamp": {  
  "type": "text",  
  "fields": {  
    "keyword": {  
      "type": "keyword",  
      "ignore_above": 256  
    }  
  }  
},  
"work_experience": {  
  "type": "text",  
  "fields": {  
    "keyword": {  
      "type": "keyword",  
      "ignore_above": 256  
    }  
  }  
}  
}  
}
```