1. Créer un index « **movies »** de type « **movie »** avec un mapping correspondant à la  
 structure des données

POST movies/movie  
{  
"mappings" : {  
"properties" : {  
"fields" : {  
"properties" : {  
"actors" : {  
"type" : "text",  
"fields" : {  
"keyword" : {  
"type" : "keyword",  
"ignore\_above" : 256  
}  
}  
},  
"directors" : {  
"type" : "text",  
"fields" : {  
"keyword" : {  
"type" : "keyword",  
"ignore\_above" : 256  
}  
}  
},  
"genres" : {  
"type" : "text",  
"fields" : {  
"keyword" : {  
"type" : "keyword",  
"ignore\_above" : 256  
}  
}  
},  
"image\_url" : {  
"type" : "text",  
"fields" : {  
"keyword" : {  
"type" : "keyword",  
"ignore\_above" : 256  
}  
}  
},  
"plot" : {  
"type" : "text",  
"fields" : {  
"keyword" : {  
"type" : "keyword",  
"ignore\_above" : 256  
}  
}  
},  
"rank" : {  
"type" : "long"  
},  
"rating" : {  
"type" : "float"  
},  
"release\_date" : {  
"type" : "date"  
},  
"running\_time\_secs" : {  
"type" : "long"  
},  
"title" : {  
"type" : "text",  
"fields" : {  
"keyword" : {  
"type" : "keyword",  
"ignore\_above" : 256  
}  
}  
},  
"year" : {  
"type" : "long"  
}  
}  
},  
"id" : {  
"type" : "text",  
"fields" : {  
"keyword" : {  
"type" : "keyword",  
"ignore\_above" : 256  
}  
}  
},  
"type" : {  
"type" : "text",  
"fields" : {  
"keyword" : {  
"type" : "keyword",  
"ignore\_above" : 256  
}  
}  
}  
}  
}  
}

Reponse :

b. Offrir le fichier Formation\_ES\_data\_2.txt et charger les données dans l’index « movies » de type « movie »

Utilisation de l’ api \_bulk

Reponse :

c. Ressortir le nombre de réalisateurs distincts qui font les films du genre « Thriller

GET movies/movie/\_search

{

"size": 0,

"query" :{

"match" : {"fields.genres": "Thriller"}

} ,

"aggs": {

"realisateurs\_distincts": {

"cardinality": {

"field": "fields.directors.keyword"

}

}

}

}

Reponse :

#! Deprecation: [types removal] Specifying types in search requests is deprecated.

{

"took" : 2,

"timed\_out" : false,

"\_shards" : {

"total" : 1,

"successful" : 1,

"skipped" : 0,

"failed" : 0

},

"hits" : {

"total" : {

"value" : 262,

"relation" : "eq"

},

"max\_score" : null,

"hits" : [ ]

},

"aggregations" : {

"realisateurs\_distincts" : {

"value" : 193

}

}

}

5. Ressortir la liste des films de genre « Drama » d’une durée supérieure à 6000 secondes

GET /movies/\_search

{

"query": {

"bool": {

"must": [

{"match": {

"fields.genres": "Drama"

}},

{"range": {

"fields.running\_time\_secs": {

"gte": 6000

}

}}

]

}

}}

Reponse :

{

"took" : 2,

"timed\_out" : false,

"\_shards" : {

"total" : 1,

"successful" : 1,

"skipped" : 0,

"failed" : 0

},

"hits" : {

"total" : {

"value" : 306,

"relation" : "eq"

},

"max\_score" : 2.0982416,

"hits" : [

{

"\_index" : "movies",

"\_type" : "movie",

"\_id" : "95",

"\_score" : 2.0982416,

"\_source" : {

"fields" : {

"directors" : [

"Jeff Nichols"

],

"release\_date" : "2012-05-26T00:00:00Z",

"rating" : 7.5,

"genres" : [

"Drama"

],

"image\_url" : "http://ia.media-imdb.com/images/M/MV5BMTU2MzcyODgyNV5BMl5BanBnXkFtZTcwNTc4MDYwOQ@@.\_V1\_SX400\_.jpg",

"plot" : "Two young boys encounter a fugitive and form a pact to help him evade the bounty hunters on his trail and to reunite him with his true love.",

"title" : "Mud",

"rank" : 95,

"running\_time\_secs" : 7800,

"actors" : [

"Matthew McConaughey",

"Tye Sheridan",

"Jacob Lofland"

],

"year" : 2012

},

"id" : "tt1935179",

"type" : "add"

}

},

{

"\_index" : "movies",

"\_type" : "movie",

"\_id" : "119",

"\_score" : 2.0982416,

"\_source" : {

"fields" : {

"directors" : [

"Michael Polish"

],

"release\_date" : "2018-01-23T00:00:00Z",

"rating" : 6.3,

"genres" : [

"Drama"

],

"image\_url" : "http://ia.media-imdb.com/images/M/MV5BMjI3MDU0MDY2MF5BMl5BanBnXkFtZTgwNDY3NjUzMDE@.\_V1\_SX400\_.jpg",

"plot" : "A recounting of Jack Kerouac's (here known by the name of his fictional alter-ego Jack Duluoz) three sojourns to the cabin in Big Sur, owned by poet Lawrence Ferlinghetti.",

"title" : "Big Sur",

"rank" : 119,

"running\_time\_secs" : 6000,

"actors" : [

"Stana Katic",

"Radha Mitchell",

"Kate Bosworth"

],

"year" : 2018

},

"id" : "tt1462411",

"type" : "add"

}

},

{

"\_index" : "movies",

"\_type" : "movie",

"\_id" : "145",

"\_score" : 2.0982416,

"\_source" : {

"fields" : {

"directors" : [

"David Fincher"

],

"release\_date" : "1999-09-10T00:00:00Z",

"rating" : 8.8,

"genres" : [

"Drama"

],

"image\_url" : "http://ia.media-imdb.com/images/M/MV5BMjIwNTYzMzE1M15BMl5BanBnXkFtZTcwOTE5Mzg3OA@@.\_V1\_SX400\_.jpg",

"plot" : "An insomniac office worker looking for a way to change his life crosses paths with a devil-may-care soap maker and they form an underground fight club that evolves into something much, much more...",

"title" : "Fight Club",

"rank" : 145,

"running\_time\_secs" : 8340,

"actors" : [

"Brad Pitt",

"Edward Norton",

"Helena Bonham Carter"

],

"year" : 1999

},

"id" : "tt0137523",

"type" : "add"

}

},

{

"\_index" : "movies",

"\_type" : "movie",

"\_id" : "205",

"\_score" : 2.0982416,

"\_source" : {

"fields" : {

"directors" : [

"Anne Fontaine"

],

"release\_date" : "2018-01-18T00:00:00Z",

"rating" : 6.1,

"genres" : [

"Drama"

],

"image\_url" : "http://ia.media-imdb.com/images/M/MV5BMjg5ODY2MzcwMF5BMl5BanBnXkFtZTcwODEwNjQ3OQ@@.\_V1\_SX400\_.jpg",

"plot" : "A pair of childhood friends and neighbors fall for each other's sons.",

"title" : "Adore",

"rank" : 205,

"running\_time\_secs" : 6000,

"actors" : [

"Naomi Watts",

"Robin Wright",

"Xavier Samuel"

],

"year" : 2018

},

"id" : "tt2103267",

"type" : "add"

}

},

{

"\_index" : "movies",

"\_type" : "movie",

"\_id" : "206",

"\_score" : 2.0982416,

"\_source" : {

"fields" : {

"directors" : [

"Darren Aronofsky"

],

"release\_date" : "2012-05-14T00:00:00Z",

"rating" : 8.4,

"genres" : [

"Drama"

],

"image\_url" : "http://ia.media-imdb.com/images/M/MV5BMzM2OTYwMTY4Nl5BMl5BanBnXkFtZTcwMjU1Njg3OA@@.\_V1\_SX400\_.jpg",

"plot" : "The drug-induced utopias of four Coney Island individuals are shattered when their addictions become stronger.",

"title" : "Requiem for a Dream",

"rank" : 206,

"running\_time\_secs" : 6120,

"actors" : [

"Ellen Burstyn",

"Jared Leto",

"Jennifer Connelly"

],

"year" : 2012

},

"id" : "tt0180093",

"type" : "add"

}

},

{

"\_index" : "movies",

"\_type" : "movie",

"\_id" : "210",

"\_score" : 2.0982416,

"\_source" : {

"fields" : {

"directors" : [

"Sam Mendes"

],

"release\_date" : "1999-09-08T00:00:00Z",

"rating" : 8.5,

"genres" : [

"Drama"

],

"image\_url" : "http://ia.media-imdb.com/images/M/MV5BOTU1MzExMDg3N15BMl5BanBnXkFtZTcwODExNDg3OA@@.\_V1\_SX400\_.jpg",

"plot" : "Lester Burnham, a depressed suburban father in a mid-life crisis, decides to turn his hectic life around after developing an infatuation for his daughter's attractive friend.",

"title" : "American Beauty",

"rank" : 210,

"running\_time\_secs" : 7320,

"actors" : [

"Kevin Spacey",

"Annette Bening",

"Thora Birch"

],

"year" : 1999

},

"id" : "tt0169547",

"type" : "add"

}

},

{

"\_index" : "movies",

"\_type" : "movie",

"\_id" : "241",

"\_score" : 2.0982416,

"\_source" : {

"fields" : {

"directors" : [

"Tate Taylor"

],

"release\_date" : "2011-08-09T00:00:00Z",

"rating" : 8,

"genres" : [

"Drama"

],

"image\_url" : "http://ia.media-imdb.com/images/M/MV5BMTM5OTMyMjIxOV5BMl5BanBnXkFtZTcwNzU4MjIwNQ@@.\_V1\_SX400\_.jpg",

"plot" : "An aspiring author during the civil rights movement of the 1960s decides to write a book detailing the African-American maids' point of view on the white families for which they work, and the hardships they go through on a daily basis.",

"title" : "The Help",

"rank" : 241,

"running\_time\_secs" : 8760,

"actors" : [

"Emma Stone",

"Viola Davis",

"Octavia Spencer"

],

"year" : 2011

},

"id" : "tt1454029",

"type" : "add"

}

},

{

"\_index" : "movies",

"\_type" : "movie",

"\_id" : "255",

"\_score" : 2.0982416,

"\_source" : {

"fields" : {

"directors" : [

"Thomas Vinterberg"

],

"release\_date" : "2012-05-20T00:00:00Z",

"rating" : 8.2,

"genres" : [

"Drama"

],

"image\_url" : "http://ia.media-imdb.com/images/M/MV5BMTg2NDg3ODg4NF5BMl5BanBnXkFtZTcwNzk3NTc3Nw@@.\_V1\_SX400\_.jpg",

"plot" : "A teacher lives a lonely life, all the while struggling over his son's custody. His life slowly gets better as he finds love and receives good news from his son, but his new luck is about to be brutally shattered by an innocent little lie.",

"title" : "Jagten",

"rank" : 255,

"running\_time\_secs" : 6900,

"actors" : [

"Mads Mikkelsen",

"Thomas Bo Larsen",

"Annika Wedderkopp"

],

"year" : 2012

},

"id" : "tt2106476",

"type" : "add"

}

},

{

"\_index" : "movies",

"\_type" : "movie",

"\_id" : "271",

"\_score" : 2.0982416,

"\_source" : {

"fields" : {

"directors" : [

"Joe Wright"

],

"release\_date" : "2012-09-07T00:00:00Z",

"rating" : 6.6,

"genres" : [

"Drama"

],

"image\_url" : "http://ia.media-imdb.com/images/M/MV5BMTU0NDgxNDg0NV5BMl5BanBnXkFtZTcwMjE4MzkwOA@@.\_V1\_SX400\_.jpg",

"plot" : "Set in late-19th-century Russia high-society, the aristocrat Anna Karenina enters into a life-changing affair with the affluent Count Vronsky.",

"title" : "Anna Karenina",

"rank" : 271,

"running\_time\_secs" : 7740,

"actors" : [

"Keira Knightley",

"Jude Law",

"Aaron Taylor-Johnson"

],

"year" : 2012

},

"id" : "tt1781769",

"type" : "add"

}

},

{

"\_index" : "movies",

"\_type" : "movie",

"\_id" : "315",

"\_score" : 2.0982416,

"\_source" : {

"fields" : {

"directors" : [

"Paul Thomas Anderson"

],

"release\_date" : "2007-09-27T00:00:00Z",

"rating" : 8.1,

"genres" : [

"Drama"

],

"image\_url" : "http://ia.media-imdb.com/images/M/MV5BMjA0NjE1ODEyNV5BMl5BanBnXkFtZTcwNDIzMzE5NQ@@.\_V1\_SX400\_.jpg",

"plot" : "A story of family, religion, hatred, oil and madness, focusing on a turn-of-the-century prospector in the early days of the business.",

"title" : "There Will Be Blood",

"rank" : 315,

"running\_time\_secs" : 9480,

"actors" : [

"Daniel Day-Lewis",

"Paul Dano",

"Ciarán Hinds"

],

"year" : 2007

},

"id" : "tt0469494",

"type" : "add"

}

}

]

}

}

6. Quel est le titre du film de « Quentin Tarantino » catégorisé du genre « War »

GET movies/\_search

{"size":0,

"query": {

"bool": {

"must": [

{"match\_phrase": {

"fields.directors": "Quentin Tarantino"

}}

,

{"match": {

"fields.genres": "War"

}}

]

}},

"aggs": {

"titre\_film": {

"terms": {

"field": "fields.title.keyword",

"size": 10

}

}

}

}

Reponse :

{

"took" : 0,

"timed\_out" : false,

"\_shards" : {

"total" : 1,

"successful" : 1,

"skipped" : 0,

"failed" : 0

},

"hits" : {

"total" : {

"value" : 1,

"relation" : "eq"

},

"max\_score" : null,

"hits" : [ ]

},

"aggregations" : {

"titre\_film" : {

"doc\_count\_error\_upper\_bound" : 0,

"sum\_other\_doc\_count" : 0,

"buckets" : [

{

"key" : "Inglourious Basterds",

"doc\_count" : 1

}

]

}

}

}

7. Ressortir les films dans lesquels les acteurs « Sylvester Stallone » et « Arnold Schwarzenegger » ont joué ayant un rang inférieur à 100

GET /movies/\_search

{

  "query": {

    "bool": {

      "must": [

        {"match\_phrase": {

          "fields.actors": "Sylvester Stallone"

        }},

        {

          "match\_phrase": {

            "fields.actors": "Arnold Schwarzenegger"

          }

        },

        {

          "range": {

            "fields.rank": {

              "lte": 100

            }

          }

        }

      ]

    }

  }

}

Reponse :

{

"took" : 1,

"timed\_out" : false,

"\_shards" : {

"total" : 1,

"successful" : 1,

"skipped" : 0,

"failed" : 0

},

"hits" : {

"total" : {

"value" : 1,

"relation" : "eq"

},

"max\_score" : 19.110508,

"hits" : [

{

"\_index" : "movies",

"\_type" : "movie",

"\_id" : "27",

"\_score" : 19.110508,

"\_source" : {

"fields" : {

"directors" : [

"Mikael Håfström"

],

"release\_date" : "2018-07-18T00:00:00Z",

"rating" : 7.6,

"genres" : [

"Action",

"Mystery",

"Thriller"

],

"image\_url" : "http://ia.media-imdb.com/images/M/MV5BMTk3OTcxMTEyNl5BMl5BanBnXkFtZTcwMDQ4MjQ2OQ@@.\_V1\_SX400\_.jpg",

"plot" : "When a structural-security authority finds himself incarcerated in a prison he designed, he has to put his skills to escape and find out who framed him.",

"title" : "Escape Plan",

"rank" : 27,

"running\_time\_secs" : 6960,

"actors" : [

"Sylvester Stallone",

"Arnold Schwarzenegger",

"50 Cent"

],

"year" : 2018

},

"id" : "tt1211956",

"type" : "add"

}

}

]

}

}

8. Ressortir les films de « Christopher Nolan » sortis entre 2010 et 2020

GET movies/movie/\_search

{

  "query": {

    "bool": {

      "must": {

        "match": {

          "fields.directors": "Christopher Nolan"

        }

      },

      "filter": {

        "range": {

          "fields.release\_date": {

            "from": "2010-01-01",

            "to": "2020-12-31"

          }

        }

      }

    }

  }

}

Reponse :

{

"took" : 1,

"timed\_out" : false,

"\_shards" : {

"total" : 1,

"successful" : 1,

"skipped" : 0,

"failed" : 0

},

"hits" : {

"total" : {

"value" : 6,

"relation" : "eq"

},

"max\_score" : 9.662337,

"hits" : [

{

"\_index" : "movies",

"\_type" : "movie",

"\_id" : "63",

"\_score" : 9.662337,

"\_source" : {

"fields" : {

"directors" : [

"Christopher Nolan"

],

"release\_date" : "2012-07-16T00:00:00Z",

"rating" : 8.6,

"genres" : [

"Action",

"Crime",

"Thriller"

],

"image\_url" : "http://ia.media-imdb.com/images/M/MV5BMTk4ODQzNDY3Ml5BMl5BanBnXkFtZTcwODA0NTM4Nw@@.\_V1\_SX400\_.jpg",

"plot" : "Eight years on, a new evil rises from where the Batman and Commissioner Gordon tried to bury it, causing the Batman to resurface and fight to protect Gotham City... the very city which brands him an enemy.",

"title" : "The Dark Knight Rises",

"rank" : 63,

"running\_time\_secs" : 9900,

"actors" : [

"Christian Bale",

"Tom Hardy",

"Anne Hathaway"

],

"year" : 2012

},

"id" : "tt1345836",

"type" : "add"

}

},

{

"\_index" : "movies",

"\_type" : "movie",

"\_id" : "121",

"\_score" : 9.662337,

"\_source" : {

"fields" : {

"directors" : [

"Christopher Nolan"

],

"release\_date" : "2010-07-08T00:00:00Z",

"rating" : 8.8,

"genres" : [

"Action",

"Adventure",

"Mystery",

"Sci-Fi",

"Thriller"

],

"image\_url" : "http://ia.media-imdb.com/images/M/MV5BMjAxMzY3NjcxNF5BMl5BanBnXkFtZTcwNTI5OTM0Mw@@.\_V1\_SX400\_.jpg",

"plot" : "A skilled extractor is offered a chance to regain his old life as payment for a task considered to be impossible.",

"title" : "Inception",

"rank" : 121,

"running\_time\_secs" : 8880,

"actors" : [

"Leonardo DiCaprio",

"Joseph Gordon-Levitt",

"Ellen Page"

],

"year" : 2010

},

"id" : "tt1375666",

"type" : "add"

}

},

{

"\_index" : "movies",

"\_type" : "movie",

"\_id" : "199",

"\_score" : 9.662337,

"\_source" : {

"fields" : {

"directors" : [

"Christopher Nolan"

],

"release\_date" : "2016-10-17T00:00:00Z",

"rating" : 8.4,

"genres" : [

"Drama",

"Mystery",

"Thriller"

],

"image\_url" : "http://ia.media-imdb.com/images/M/MV5BMjA4NDI0MTIxNF5BMl5BanBnXkFtZTYwNTM0MzY2.\_V1\_SX400\_.jpg",

"plot" : "The rivalry between two magicians becomes more exacerbated by their attempt to perform the ultimate illusion.",

"title" : "The Prestige",

"rank" : 199,

"running\_time\_secs" : 7800,

"actors" : [

"Christian Bale",

"Hugh Jackman",

"Scarlett Johansson"

],

"year" : 2016

},

"id" : "tt0482571",

"type" : "add"

}

},

{

"\_index" : "movies",

"\_type" : "movie",

"\_id" : "345",

"\_score" : 9.662337,

"\_source" : {

"fields" : {

"directors" : [

"Christopher Nolan"

],

"release\_date" : "2012-09-05T00:00:00Z",

"rating" : 8.6,

"genres" : [

"Mystery",

"Thriller"

],

"image\_url" : "http://ia.media-imdb.com/images/M/MV5BMTc4MjUxNDAwN15BMl5BanBnXkFtZTcwMDMwNDg3OA@@.\_V1\_SX400\_.jpg",

"plot" : "A man, suffering from short-term memory loss, uses notes and tattoos to hunt for the man he thinks killed his wife.",

"title" : "Memento",

"rank" : 345,

"running\_time\_secs" : 6780,

"actors" : [

"Guy Pearce",

"Carrie-Anne Moss",

"Joe Pantoliano"

],

"year" : 2012

},

"id" : "tt0209144",

"type" : "add"

}

},

{

"\_index" : "movies",

"\_type" : "movie",

"\_id" : "493",

"\_score" : 9.662337,

"\_source" : {

"fields" : {

"directors" : [

"Christopher Nolan"

],

"release\_date" : "2017-11-05T00:00:00Z",

"genres" : [

"Sci-Fi"

],

"plot" : "A group of explorers make use of a newly discovered wormhole to surpass the limitations on human space travel and conquer the vast distances involved in an interstellar voyage.",

"title" : "Interstellar",

"rank" : 493,

"year" : 2017,

"actors" : [

"Anne Hathaway",

"Matt Damon",

"Jessica Chastain"

]

},

"id" : "tt0816692",

"type" : "add"

}

},

{

"\_index" : "movies",

"\_type" : "movie",

"\_id" : "281",

"\_score" : 4.77256,

"\_source" : {

"fields" : {

"directors" : [

"Christopher McQuarrie"

],

"release\_date" : "2012-12-20T00:00:00Z",

"rating" : 6.9,

"genres" : [

"Action",

"Crime",

"Thriller"

],

"image\_url" : "http://ia.media-imdb.com/images/M/MV5BMTM1NjUxMDI3OV5BMl5BanBnXkFtZTcwNjg1ODM3OA@@.\_V1\_SX400\_.jpg",

"plot" : "A homicide investigator digs deeper into a case involving a trained military sniper who shot five random victims.",

"title" : "Jack Reacher",

"rank" : 281,

"running\_time\_secs" : 7800,

"actors" : [

"Tom Cruise",

"Rosamund Pike",

"Richard Jenkins"

],

"year" : 2012

},

"id" : "tt0790724",

"type" : "add"

}

}

]

}

}

9. Donner les occurrences des films par genres (0,5 Pts)

GET /movies/\_search

{ "size": 0,

  "aggs": {

    "film\_par\_genre": {

      "terms": {

        "field": "fields.genres.keyword"

      }

    }

  }

}

Reponse :

{

"took" : 3,

"timed\_out" : false,

"\_shards" : {

"total" : 1,

"successful" : 1,

"skipped" : 0,

"failed" : 0

},

"hits" : {

"total" : {

"value" : 881,

"relation" : "eq"

},

"max\_score" : null,

"hits" : [ ]

},

"aggregations" : {

"film\_par\_genre" : {

"doc\_count\_error\_upper\_bound" : 0,

"sum\_other\_doc\_count" : 359,

"buckets" : [

{

"key" : "Drama",

"doc\_count" : 396

},

{

"key" : "Action",

"doc\_count" : 264

},

{

"key" : "Comedy",

"doc\_count" : 262

},

{

"key" : "Thriller",

"doc\_count" : 262

},

{

"key" : "Adventure",

"doc\_count" : 226

},

{

"key" : "Crime",

"doc\_count" : 164

},

{

"key" : "Romance",

"doc\_count" : 164

},

{

"key" : "Fantasy",

"doc\_count" : 151

},

{

"key" : "Sci-Fi",

"doc\_count" : 151

},

{

"key" : "Family",

"doc\_count" : 96

}

]

}

}

}

10. Donner la note (rating) minimum, maximum et moyenne des films par réalisateur

GET movies/movie/\_search

{

  "size": 0,

  "aggs": {

    "realisateur\_films": {

      "terms": {

        "field": "fields.directors.keyword"

      },

      "aggs": {

        "note\_moyenne": {

          "avg": {

            "field": "fields.rating"

          }

        },

        "note\_maximale": {

          "max": {

            "field": "fields.rating"

          }

        },

        "note\_minimale": {

          "min": {

            "field": "fields.rating"

          }

        }

      }

    }

  }

}

Reponse :

#! Deprecation: [types removal] Specifying types in search requests is deprecated.

{

"took" : 51,

"timed\_out" : false,

"\_shards" : {

"total" : 1,

"successful" : 1,

"skipped" : 0,

"failed" : 0

},

"hits" : {

"total" : {

"value" : 881,

"relation" : "eq"

},

"max\_score" : null,

"hits" : [ ]

},

"aggregations" : {

"realisateur\_films" : {

"doc\_count\_error\_upper\_bound" : 0,

"sum\_other\_doc\_count" : 886,

"buckets" : [

{

"key" : "Steven Spielberg",

"doc\_count" : 12,

"note\_minimale" : {

"value" : 6.300000190734863

},

"note\_moyenne" : {

"value" : 7.658333381017049

},

"note\_maximale" : {

"value" : 8.899999618530273

}

},

{

"key" : "Ridley Scott",

"doc\_count" : 9,

"note\_minimale" : {

"value" : 6.599999904632568

},

"note\_moyenne" : {

"value" : 7.785714285714286

},

"note\_maximale" : {

"value" : 8.5

}

},

{

"key" : "Tim Burton",

"doc\_count" : 9,

"note\_minimale" : {

"value" : 6.199999809265137

},

"note\_moyenne" : {

"value" : 7.1777777671813965

},

"note\_maximale" : {

"value" : 8.0

}

},

{

"key" : "Christopher Nolan",

"doc\_count" : 8,

"note\_minimale" : {

"value" : 7.099999904632568

},

"note\_moyenne" : {

"value" : 8.400000095367432

},

"note\_maximale" : {

"value" : 9.0

}

},

{

"key" : "Martin Scorsese",

"doc\_count" : 8,

"note\_minimale" : {

"value" : 7.5

},

"note\_moyenne" : {

"value" : 8.157142843518939

},

"note\_maximale" : {

"value" : 8.800000190734863

}

},

{

"key" : "David Fincher",

"doc\_count" : 7,

"note\_minimale" : {

"value" : 7.699999809265137

},

"note\_moyenne" : {

"value" : 8.100000063578287

},

"note\_maximale" : {

"value" : 8.800000190734863

}

},

{

"key" : "James Cameron",

"doc\_count" : 7,

"note\_minimale" : {

"value" : 7.199999809265137

},

"note\_moyenne" : {

"value" : 7.9666666984558105

},

"note\_maximale" : {

"value" : 8.5

}

},

{

"key" : "Quentin Tarantino",

"doc\_count" : 7,

"note\_minimale" : {

"value" : 7.5

},

"note\_moyenne" : {

"value" : 8.285714285714286

},

"note\_maximale" : {

"value" : 9.0

}

},

{

"key" : "Steven Soderbergh",

"doc\_count" : 7,

"note\_minimale" : {

"value" : 6.099999904632568

},

"note\_moyenne" : {

"value" : 6.799999918256487

},

"note\_maximale" : {

"value" : 7.699999809265137

}

},

{

"key" : "Michael Bay",

"doc\_count" : 6,

"note\_minimale" : {

"value" : 5.800000190734863

},

"note\_moyenne" : {

"value" : 6.320000076293946

},

"note\_maximale" : {

"value" : 7.099999904632568

}

}

]

}

}

}

11. Compter le nombre de films du genre « Thriller » par tranche de note (0-3.9, 4-6.9, Plus de 6.9 ...)

GET movies/movie/\_search

{

  "size": 0,

  "query": {

    "match": {

      "fields.genres": "Thriller"

    }

  },

  "aggs": {

    "nombre\_films\_notes": {

      "range": {

        "field": "fields.rating",

        "ranges": [

          {

            "from": 0,

            "to": 3.9

          },

          {

            "from": 4,

            "to": 6.9

          },

          {

            "from": 7

          }

        ]

      }

    }

  }

}

Response:

#! Deprecation: [types removal] Specifying types in search requests is deprecated.

{

"took" : 4,

"timed\_out" : false,

"\_shards" : {

"total" : 1,

"successful" : 1,

"skipped" : 0,

"failed" : 0

},

"hits" : {

"total" : {

"value" : 262,

"relation" : "eq"

},

"max\_score" : null,

"hits" : [ ]

},

"aggregations" : {

"nombre\_films\_notes" : {

"buckets" : [

{

"key" : "0.0-3.9",

"from" : 0.0,

"to" : 3.9,

"doc\_count" : 1

},

{

"key" : "4.0-6.9",

"from" : 4.0,

"to" : 6.9,

"doc\_count" : 120

},

{

"key" : "7.0-\*",

"from" : 7.0,

"doc\_count" : 112

}

]

}

}

}

12. Quel est le nombre de metteurs en scène distincts pour les films du genre « Drama ».

GET movies/movie/\_search

{

  "size": 0,

  "query": {

    "match": {

      "fields.genres": "Drama"

    }

  },

  "aggs": {

    "metteurs\_scene\_distincts": {

      "cardinality": {

        "field": "fields.directors.keyword"

      }

    }

  }

}

Response:

#! Deprecation: [types removal] Specifying types in search requests is deprecated.

{

"took" : 8,

"timed\_out" : false,

"\_shards" : {

"total" : 1,

"successful" : 1,

"skipped" : 0,

"failed" : 0

},

"hits" : {

"total" : {

"value" : 396,

"relation" : "eq"

},

"max\_score" : null,

"hits" : [ ]

},

"aggregations" : {

"metteurs\_scene\_distincts" : {

"value" : 297

}

}

}

13. Donner le rang (rank) moyen des films par réalisateur (0,5 Pts)

GET /movies/\_search

{ "size": 0,

  "aggs": {

    "par\_realisateur": {

      "terms": {

        "field": "fields.directors.keyword"

      },

      "aggs": {

        "rang\_moyen": {

          "avg": {

            "field": "fields.rank"

          }

        }

      }

    }

  }

}

Reponse :

{

"took" : 3,

"timed\_out" : false,

"\_shards" : {

"total" : 1,

"successful" : 1,

"skipped" : 0,

"failed" : 0

},

"hits" : {

"total" : {

"value" : 881,

"relation" : "eq"

},

"max\_score" : null,

"hits" : [ ]

},

"aggregations" : {

"par\_realisateur" : {

"doc\_count\_error\_upper\_bound" : 0,

"sum\_other\_doc\_count" : 886,

"buckets" : [

{

"key" : "Steven Spielberg",

"doc\_count" : 12,

"rang\_moyen" : {

"value" : 520.75

}

},

{

"key" : "Ridley Scott",

"doc\_count" : 9,

"rang\_moyen" : {

"value" : 470.77777777777777

}

},

{

"key" : "Tim Burton",

"doc\_count" : 9,

"rang\_moyen" : {

"value" : 507.0

}

},

{

"key" : "Christopher Nolan",

"doc\_count" : 8,

"rang\_moyen" : {

"value" : 287.375

}

},

{

"key" : "Martin Scorsese",

"doc\_count" : 8,

"rang\_moyen" : {

"value" : 438.0

}

},

{

"key" : "David Fincher",

"doc\_count" : 7,

"rang\_moyen" : {

"value" : 387.57142857142856

}

},

{

"key" : "James Cameron",

"doc\_count" : 7,

"rang\_moyen" : {

"value" : 717.1428571428571

}

},

{

"key" : "Quentin Tarantino",

"doc\_count" : 7,

"rang\_moyen" : {

"value" : 325.2857142857143

}

},

{

"key" : "Steven Soderbergh",

"doc\_count" : 7,

"rang\_moyen" : {

"value" : 397.2857142857143

}

},

{

"key" : "Michael Bay",

"doc\_count" : 6,

"rang\_moyen" : {

"value" : 418.5

}

}

]

}

}

}