

## Answer 6

**a.**

```
POST accounts/_update_by_query?conflicts=proceed
{
  "query": {
    "match_all": {}
  },
  "script": {
    "lang": "painless",
    "source": "ctx._source.expense_list = []"
  }
}
```

**b.**

```
POST accounts/_update_by_query?conflicts=proceed
{
  "query": {
    "range": {
      "age": {
        "gte": 10,
        "lte": 25
      }
    }
  },
  "script": {
    "lang": "painless",
    "source": "ctx._source.expense_list.add('student_loan')"
  }
}
```

**c.**

```
POST accounts/_update_by_query?conflicts=proceed
{
  "query": {
    "range": {
      "age": {
        "gt": 25,
        "lte": 50
      }
    }
  },
}
```

```

"script": {
  "lang": "painless",
  "source": """
    for (int i = 0; i < 2; i++) {
      String item = params.list[i];
      if (!ctx._source.expense_list.contains(item)) {
        ctx._source.expense_list.add(item)
      }
    }
    """,
  "params": {
    "list": ["car_loan", "house_loan"]
  }
}
}

```

**d.**

```

POST accounts/_update_by_query?conflicts=proceed
{
  "query": {
    "range": {
      "balance": {
        "gte": 40000
      }
    }
  },
  "script": {
    "lang": "painless",
    "source": "ctx._source.expense_list.add('student_loan')"
  }
}

```

**e.**

```

POST accounts/_update_by_query?conflicts=proceed
{
  "query": {
    "match": {
      "state": "PA"
    }
  },
  "script": {
    "lang": "painless",

```

```
        "source": "ctx._source.balance -= 2000"
    }
}
```

## Answer 7

POST accounts/\_delete\_by\_query

```
{
  "query": {
    "match": {
      "state": "KY"
    }
  }
}
```

## Answer 9

A.

PUT college

```
{
  "mappings": {
    "_doc": {
      "dynamic": false,
      "properties": {
        "batch": {
          "type": "integer"
        },
        "student": {
          "type": "nested",
          "properties": {
            "id": {
              "type": "integer"
            },
            "name": {
              "type": "text"
            }
          }
        }
      }
    }
  }
}
```

```

    }
  }
}
}
}

```

## B.

PUT college/\_doc/1

```

{
  "batch": 2019,
  "student": [
    {
      "id": 503,
      "name": "Arika Joshi"
    },
    {
      "id": 516,
      "name": "Nabina Khadka"
    },
    {
      "id": 526,
      "name": "Sabina Shrestha"
    }
  ]
}

```

## C.

PUT workshop

```

{
  "mappings": {
    "_doc": {
      "dynamic": false,
      "properties": {
        "student_id": {
          "type": "integer"
        },
        "workshop_about": {
          "type": "text"
        },
        "enrolled_year": {
          "type": "date",
          "format": "yyyy"
        }
      }
    }
  }
}

```

```

    }
  }
}
}

```

#### D.

PUT workshop/\_doc/\_bulk

```

{"index":{"_id":1}}
{"student_id":503,"workshop_about":"Video Editing","enrolled_year":"2018"}
{"index":{"_id":2}}
{"student_id":502,"workshop_about":"Python for AI","enrolled_year":"2018"}
{"index":{"_id":3}}
{"student_id":516,"workshop_about":"Android Programming","enrolled_year":"2018"}
{"index":{"_id":4}}
{"student_id":504,"workshop_about":"Elastic Search","enrolled_year":"2018"}
{"index":{"_id":5}}
{"student_id":526,"workshop_about":"Angular JS","enrolled_year":"2018"}

```

#### E.

GET workshop/\_search

```

{
  "query": {
    "terms": {
      "student_id": {
        "index": "college",
        "type": "_doc",
        "id": 1,
        "path": "student.id"
      }
    }
  }
}

```