

# DB (MySQL) → Kafka → ElasticSearch (Kafka, ES)

## DB (MySQL) → Kafka + Bulk ES

DB (MySQL) → Kafka → ElasticSearch

1. **DB -> Kafka -> ElasticSearch** DB (MySQL) → Kafka → ElasticSearch
2. **Kafka** bucket Kafka bucket
3. **ElasticSearch** Bulk API ElasticSearch Bulk API

DB (MySQL) → Kafka → ElasticSearch

1. **Kafka** Bucket Kafka bucket
2. **ElasticSearch** Bulk ElasticSearch Bulk
3. DB (MySQL) (150,000) DB (MySQL) (150,000)

## Kafka Bucket Kafka

```
qryCnt := models.QryCount(y.Db, cntStr)
fmt.Println("qryCnt:", qryCnt)

bucketCnt := 0
if qryCnt == 0 {
    bucketCnt = 0
} else {
    bucketCnt = 1 + (int(qryCnt) / p.Limit)
}

fmt.Println("bucketCnt:", bucketCnt)
for i := 0; i < bucketCnt; i++ {
    // for i := 0; i < 3; i++ {
    p.Offset = p.Limit * i
    sqlStr, _, _ := models_join.ListType1PlainQryStrGet(y, lt, p, q, "/list")
```

```
if err := t.ProduceaBucketToKafka(y, "kkk", headers, sqlStr, topic); err != nil {
    return errors.New(e.PageQryErr("vrt452", ": "+err.Error()))
}
```

**Bucket**

# ElasticSearch Bulk API

```

for _, row := range v.Page {
    row.ClientCode = clientCode

    fmt.Printf("BuyerId: %d, LastSorderDate: %s, ClientCode : %s\n", row.Id, row.LastSorderDate, row.ClientCode)

    row.LastVistDate = row.LastSorderDate

    // Meta
    meta := fmt.Sprintf(`{ "index": { "_index": "%s", "_id": "%d" } }%s`, esIndex, row.Id, "\n")

    bulkRequest.WriteString(meta)

    //
    data, _ := json.Marshal(row)

    bulkRequest.WriteString(string(data) + "\n")

    fmt.Println(string(data)) //
}

fmt.Printf("Prepared document for BuyerId: %d\n", row.Id)
}

// Bulk
res, err := es.Bulk(bytes.NewReader(bulkRequest.Bytes()))

if err != nil {
    return fmt.Errorf("bulk request failed: %w", err)
}

defer res.Body.Close()

// Elasticsearch
if res.IsError() {
    log.Printf("Bulk indexing failed: %s", res.String())

    return fmt.Errorf("bulk indexing failed")
}

```

## Bulk API

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Revision #1

Created 7 February 2025 03:02:29 by ☐

Updated 7 February 2025 03:06:08 by ☐