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□□□ □□□ □□ □ Kafka + Bulk □□

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1. **DB -> Kafka -> ElasticSearch** □□□ □□□□ □□□
2. **Kafka□ bucket** □□□ □□□□□□□ □□
3. **ElasticSearch□□ Bulk API□** □□□□ □□□ □□□□ □□ □□

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1. **Kafka□ Bucket** □→□□□□□□□□□□ □□ □□□
2. **ElasticSearch□ Bulk** □→ □□□ □□ □□ □ □□□□ □□ □□
3. □□□ □□□(**150,000**□□□□□□□□)□□□□□□□□ □□

Kafka Bucket □□ □□

```
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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