



Course Overview



View Discussion

Chapter 3: Core Aggregation - Combining Information

Lab - Using \$lookup

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```
db.air_routes.aggregate([
  {
    $match: {
      airplane: /747|380/
    }
  },
  {
    $lookup: {
      from: "air_alliances",
      foreignField: "airlines",
      localField: "airline.name",
      as: "alliance"
    }
  },
  {
    $unwind: "$alliance"
  },
  {
    $group: {
      _id: "$alliance.name",
      count: { $sum: 1 }
    }
  },
  {
    $sort: { count: -1 }
  }
])
```

We begin by aggregating over our **air_routes** collection to allow for filtering of documents containing the string "747" or "380". If we started from **air_alliances** we would have to do this **after** the lookup!

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```
{
  $match: {
    airplane: /747|380/
  }
},
```

Next, we use the **\$lookup** stage to match documents from **air_alliances** on the value of their **airlines** field against the current document's **airline.name** field

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```
{
  $lookup: {
    from: "air_alliances",
    foreignField: "airlines",
    localField: "airline.name",
    as: "alliance"
  }
},
```

We then use **\$unwind** on the **alliance** field we created in **\$lookup**, creating a document with each entry in **alliance**

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```
{
  $unwind: "$alliance"
},
```

We end with a **\$group** and **\$sort** stage, grouping on the name of the alliance and counting how many times it appeared

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```
{
  $group: {
    _id: "$alliance.name",
    count: { $sum: 1 }
  }
},
{
  $sort: { count: -1 }
}
```

This produces the following output

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```
{ "_id" : "SkyTeam", "count" : 16 }  
{ "_id" : "Star Alliance", "count" : 11 }  
{ "_id" : "OneWorld", "count" : 11 }
```

Proceed to next section