|  |  |  |
| --- | --- | --- |
| # | Query | Result |
| 1 | db.airlines.aggregate([  {**$group**: {**\_id**: **"$class"**,**total**:{**$sum**: 1}}},  {**$project**: {**class**: **"$\_id"**,**\_id**: 0, **total**: 1}} ]) | { **"total"** : 140343, **"class"** : **"F"** } { **"total"** : 23123, **"class"** : **"L"** } { **"total"** : 5683, **"class"** : **"P"** } { **"total"** : 17499, **"class"** : **"G"** } |
| 2 | db.airlines.aggregate([  {**$match**: {**"destCountry"** : {**$ne** : **"United States"**}}},  {**$group**: {  **\_id**: **"$destCity"**,  **avgPassengers**: {**$avg**: **"$passengers"**}  }},  {**$sort**: {**avgPassengers**: -1}},   {**$limit**: 3},   {**$project**: {**\_id**:0, **avgPassengers**: 1, **city**: **"$\_id"**}} ]); | { "avgPassengers" : 8052.380952380952, "city" : "Abu Dhabi, United Arab Emirates" }  { "avgPassengers" : 7176.596638655462, "city" : "Dubai, United Arab Emirates" }  { "avgPassengers" : 7103.333333333333, "city" : "Guangzhou, China" } |
| 3 | db.airlines.aggregate([  {**$match**: {**"destCountry"** : **"Latvia"**}},  {**$group**: {**\_id**: **"$destCountry"**, **carriers**: {**$addToSet**: **"$carrier"**}}} ]); | { **"\_id"** : **"Latvia"**, **"carriers"** : [ **"JetClub AG"**, **"Blue Jet SP Z o o"**, **"Uzbekistan Airways"**, **"Uzbekistan Airways"**, **"Uzbekistan Airways"**, **"Uzbekistan Airways"**, **"Uzbekistan Airways"**, **"Uzbekistan Airways"**, **"Uzbekistan Airways"** ] } |
| 4 | db.airlines.aggregate([  {**$match**: {**"originCountry"**: **"United States"**, **$or**:[{**"destCountry"** : **"Greece"**},{**"destCountry"** : **"Italy"**},{**"destCountry"** : **"Spain"**}]}},  {**$group**: { **\_id**: {**carrier** : **"$carrier"**, **destCountry** : **"Greece"**}, **total** : {**$sum** : **"$passengers"**}}},  {**$sort**: {**total**: -1}},  {**$limit**: 10},  {**$skip** : 3},  {**$project**: {**\_id**: **"$\_id.carrier"**, **total**: 1}} ]); | { **"total"** : 280256, **"\_id"** : **"Compagnia Aerea Italiana"** } { **"total"** : 229936, **"\_id"** : **"United Air Lines Inc."** } { **"total"** : 100903, **"\_id"** : **"Emirates"** } { **"total"** : 94968, **"\_id"** : **"Air Europa"** } { **"total"** : 20308, **"\_id"** : **"Meridiana S.p.A"** } { **"total"** : 13344, **"\_id"** : **"Norwegian Air Shuttle ASA"** } { **"total"** : 183, **"\_id"** : **"VistaJet Limited"** } |
| 5 | db.airlines.aggregate([  {**$match**: {**"originCountry"**: **"United States"**}},  { **$group**: { **\_id**: {**state** : **"$originState"**, **city** : **"$originCity"**}, **totalPassengers** : {**$sum** : **"$passengers"**}}},  {**$sort**: { **"\_id.state"** : 1, **totalPassengers**: -1}},  { **$group**: { **\_id**: {**state** : **"$\_id.state"**},**cities**: {**$push**: {**state** : **"$\_id.state"**, **city** : **"$\_id.city"**, **totalPassengers** : {**$sum** : **"$totalPassengers"**}}}}},  {**$sort**: { **"\_id"** : 1}},  {**$limit**: 5},  {**$project**: {**\_id** : 0, **results** : {**"$slice"** : [**"$cities"**,0,1]}}},  {**$unwind**: **"$results"**},  {**$project**: {**totalPassengers** : **"$results.totalPassengers"**, **location**: {**state**: **"$results.state"**, **city**: **"$results.city"**}}} ]) | { **"totalPassengers"** : 760120, **"location"** : { **"state"** : **"Alabama"**, **"city"** : **"Birmingham, AL"** } } { **"totalPassengers"** : 1472404, **"location"** : { **"state"** : **"Alaska"**, **"city"** : **"Anchorage, AK"** } } { **"totalPassengers"** : 13152753, **"location"** : { **"state"** : **"Arizona"**, **"city"** : **"Phoenix, AZ"** } } { **"totalPassengers"** : 571452, **"location"** : { **"state"** : **"Arkansas"**, **"city"** : **"Little Rock, AR"** } } { **"totalPassengers"** : 23701556, **"location"** : { **"state"** : **"California"**, **"city"** : **"Los Angeles, CA"** } } |
| Enron | db.enron.aggregate([  {**$project**: {**from** : **"$headers.From"**, **to**: **"$headers.To"**}},  {**$unwind**: **"$to"**},  {**$group**: {**\_id**: {**id**:**"$\_id"**,**from** : **"$from"**},**to** : {**$addToSet**: **"$to"**}}},  {**$unwind**: **"$to"**},  {**$group**: {**\_id**: {**from**:**"$\_id.from"**,**to** : **"$to"**},**messages** : {**$sum** : 1}}},  {**$sort**: { **"messages"** : -1}},  {**$limit** : 1},  {**$project**: {**\_id** : 0,**from** : **"$\_id.from"**, **to**: **"$\_id.to"**, **messages** : 1}}  ]) | { "messages" : 750, "from" : "susan.mara@enron.com", "to" : "jeff.dasovich@enron.com" } |