Queries:

* *Find all bookings for today*

db.flightBooking.find({“bookingTime”:{$gte:new Date(new Date().getFullYear(),new Date().getMonth(),new Date().getDate())}})

* *Find pilots who will need to take fit for flying tests in the next month(Assumption: Need to be done every year)*

db.Pilots.find({“dateOfFitForFlyingTest”:{“$lte”:new Date(new Date().setDate(new Date().getDate() – 334))}})

* *Find most expensive bookings in the last month for marketing and projection purposes.*

db.flightBooking.aggregate([{$sort:{totalcostofbooking:-1}},{$limit:1}]) ///Change limit to how many we want e.g. top 5.

* *Show all employees sorted by the length of time they have been working for loyalty bonuses*

db.airlineEmployees.find().sort({date:-1}).limit(2);

* *Updating when pilots have just passed there fit for flying test*

Var tempDateForFitForFlyingTest = new Date();

db.Pilots.update({\_id:},$set:{dateOfFitForFlying:tempDateForFitForFlyingTest}})////Need to check if working

* *Total money from bookings the company has recieved in the last year*

var totalBooking = db.flightBooking.aggregate( [

{ $match:{‘bookingTime’:{$gte: ISODate(“2018-00-01T00:00:00.000Z”)},’bookingTime’:{$lte: ISODate(“2018-11-31T23:59:59.000Z”)}}},

{ $group : { \_id : null, totalBooking: { $sum: "$totalcostofbooking" } } },

] ).toArray()

* *Total amount of airport costs the company has accumulated*

var totalCost = db.Airports.aggregate( [

{ $group : { \_id : null, totalCosts: { $sum: { $add : [ '$costOfUse.planestops', '$costOfUse.refuelling' ] } } } },

] ).toArray()

* *Total salary the company has to pay every year*

var totalSalary = db.airlineEmployees.aggregate( [

{ $group : { \_id : null, totalSalary: { $sum: "$salary" } } },

] ).toArray()

* *Total revenue for the company in the past year*

db.Revenue.insert({

\_id:12987,

totalBooking: totalBooking[0].totalBooking,

totalCost: totalCost[0].totalCosts,

totalSalary: totalSalary[0].totalSalary

})

db.Revenue.aggregate( [

{ $project : {\_id: 0 ,totalRevenue: {$subtract: [{$subtract: ["$totalBooking","$totalCost"]},"$totalSalary"]}} }

] )