

Group Assignment – Group D

By Mariana Narváez Cubillos, Alexander Phillip Kiener, Agathe de Drouas, Vicente Fernandez Gomez Sainz, Karim Ismail and Jonas Hellevang

1. Change the price of the tickets to discount 100€ in all the flight from Madrid or London. Hint: The \$inc operator increment a field with a value, if the value is negative, like in this case, it will decrement.

```
db.tickets.update( { $or:[{"route.origin": "Madrid"}, {"route.origin": "London"}] }, { $inc: {"route.price": -100}, {multi:true} } )
```

2. List the name of the passengers that has flown in March 2014. Hint: Use a regular expression to determine March 2014

```
db.tickets.find( {flightDate:/03\S\S\S2014/}, {"passenger.name":1, "_id":0} )
```

3. How many tickets have been sold for airplanes with more than 300 seats and price more expensive than 1000€ but less than 2000€

```
db.tickets.find( {"airplane.seats": {$gt:300}, "route.price": {$gt:1000, $lt:2000} } ).count()
```

4. How much money has the company earned selling tickets but only for the routes that fly from Madrid, Bombay and Manila?

```
db.tickets.aggregate([ { $match: { $or:[{"route.origin": "Madrid"}, {"route.origin": "Bombay"}, {"route.origin": "Manila"}] } }, { $group: { _id: null, total_sales: { $sum: "$route.price" } } } ] )
```

5. Remove the tickets for passenger that contains the name SALLY (case insensitive), for flights that cost more than 500 but less than 600 and that the origin is London or Madrid

```
db.tickets.remove( {"passenger.name":/Sally/i, "route.price": {$gt:500, $lt:600}, $or:[{"route.origin": "Madrid"}, {"route.origin": "London"}] } )
```