MODERN APPLICATION DEVELOPMENT

(JAVA SPRING BOOT)

ASSIGNMENT-02

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BRANCH: INTEGRATED M TECH (SOFTWARE ENGINEERING)

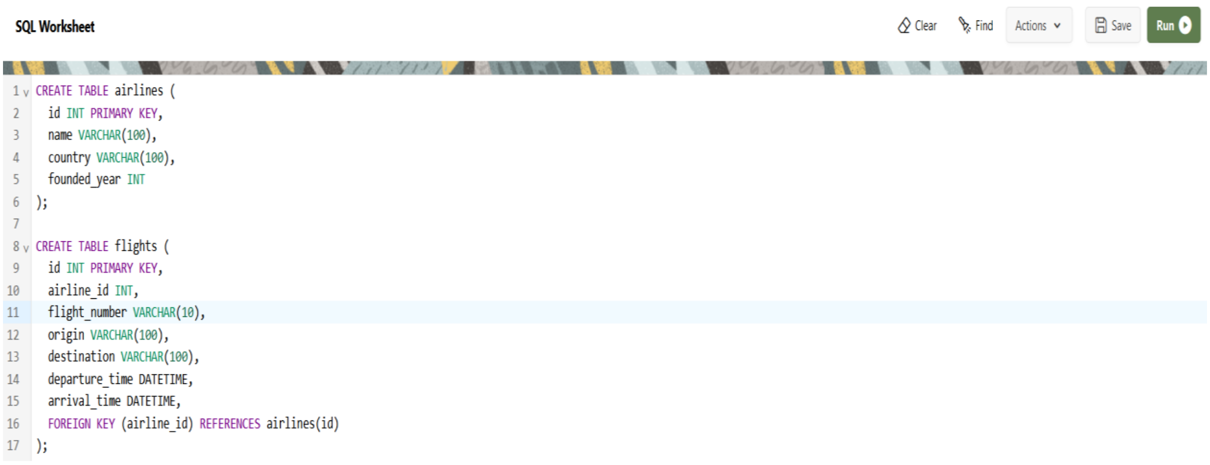
GOOGLE DRIVE LINK:https://docs.google.com/document/d/1EP8Te_lFSt_Gc5miJKQnhpGGDhX4pQGF/edit?usp=share_link&ouid=112079020877035333650&rtpof=true&sd=true

(i)Create , update, delete commands in MYSQL.

Create:

```
CREATE TABLE airlines (
  id INT PRIMARY KEY,
  name VARCHAR(100),
  country VARCHAR(100),
  founded_year INT
);

CREATE TABLE flights (
  id INT PRIMARY KEY,
  airline_id INT,
  flight_number VARCHAR(10),
  origin VARCHAR(100),
  destination VARCHAR(100),
  departure_time DATETIME,
  arrival_time DATETIME,
  FOREIGN KEY (airline_id) REFERENCES airlines(id)
);
```

Screenshots:



```
CREATE TABLE airlines (
  id INT PRIMARY KEY,
  name VARCHAR(100),
  country VARCHAR(100),
  founded_year INT
);

CREATE TABLE flights (
  id INT PRIMARY KEY,
  airline_id INT,
  flight_number VARCHAR(10),
  origin VARCHAR(100),
  destination VARCHAR(100),
  departure_time DATETIME,
  arrival_time DATETIME,
  FOREIGN KEY (airline_id) REFERENCES airlines(id)
);
```

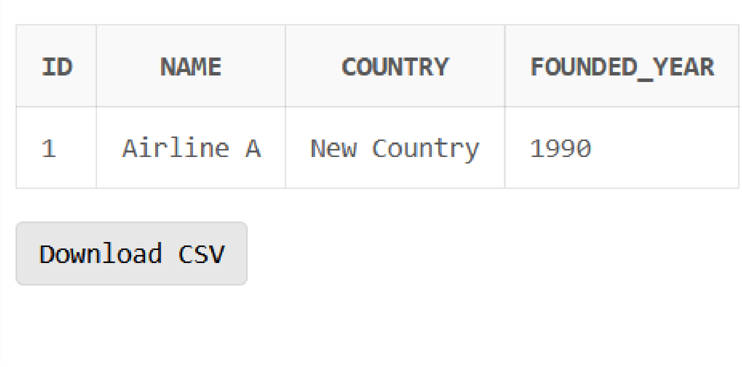
<u>Insert command:</u>

```
INSERT INTO airlines (id, name, country, founded_year)
VALUES (1, 'Airline A', 'Country A', 1990);

INSERT INTO airlines (id, name, country, founded_year)
VALUES (2, 'Airline B', 'Country B', 1985);

INSERT INTO flights (id, airline_id, flight_number,
origin, destination, departure_time, arrival_time)
```

```
VALUES (1, 1, 'A100', 'City X', 'City Y', '2023-05-28 10:00:00', '2023-05-28 12:00:00');
```

```
INSERT INTO flights (id, airline_id, flight_number, origin, destination, departure_time, arrival_time)
VALUES (2, 2, 'B200', 'City Y', 'City Z', '2023-05-28 14:00:00', '2023-05-28 16:00:00');
```

Screenshots:



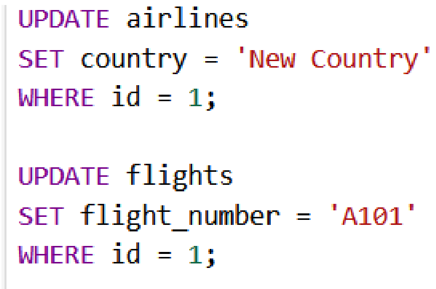
ID	NAME	COUNTRY	FOUNDED_YEAR
1	Airline A	New Country	1990

Update command:

```
UPDATE airlines
SET country = 'New Country'
WHERE id = 1;
```

```
UPDATE flights
SET flight_number = 'A101'
WHERE id = 1;
```

Screenshots:



```
UPDATE airlines
SET country = 'New Country'
WHERE id = 1;

UPDATE flights
SET flight_number = 'A101'
WHERE id = 1;
```

Delete command:

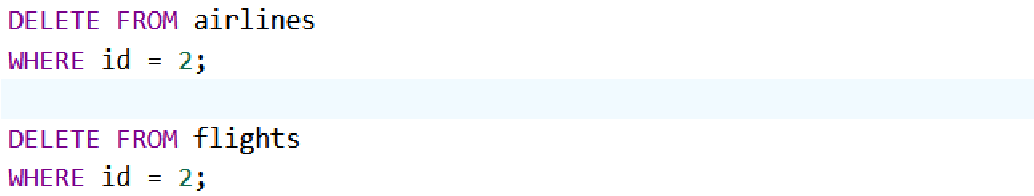
DELETE FROM airlines

WHERE id = 2;

DELETE FROM flights

WHERE id = 2;

Screenshots:



```
DELETE FROM airlines
WHERE id = 2;

DELETE FROM flights
WHERE id = 2;
```

Q3. Create, update, delete commands in mongoDB.

Commands: here we taken an example for flight/airline database.

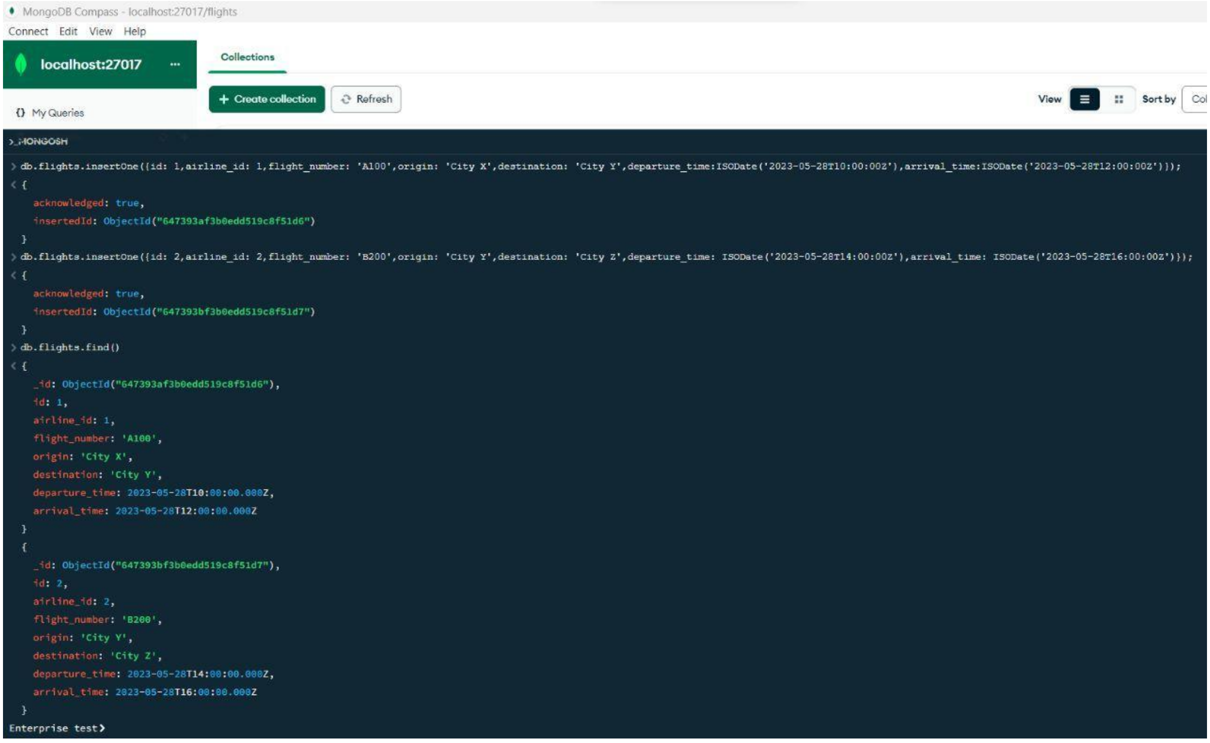
1.insert command:

db.airlines.insertOne({

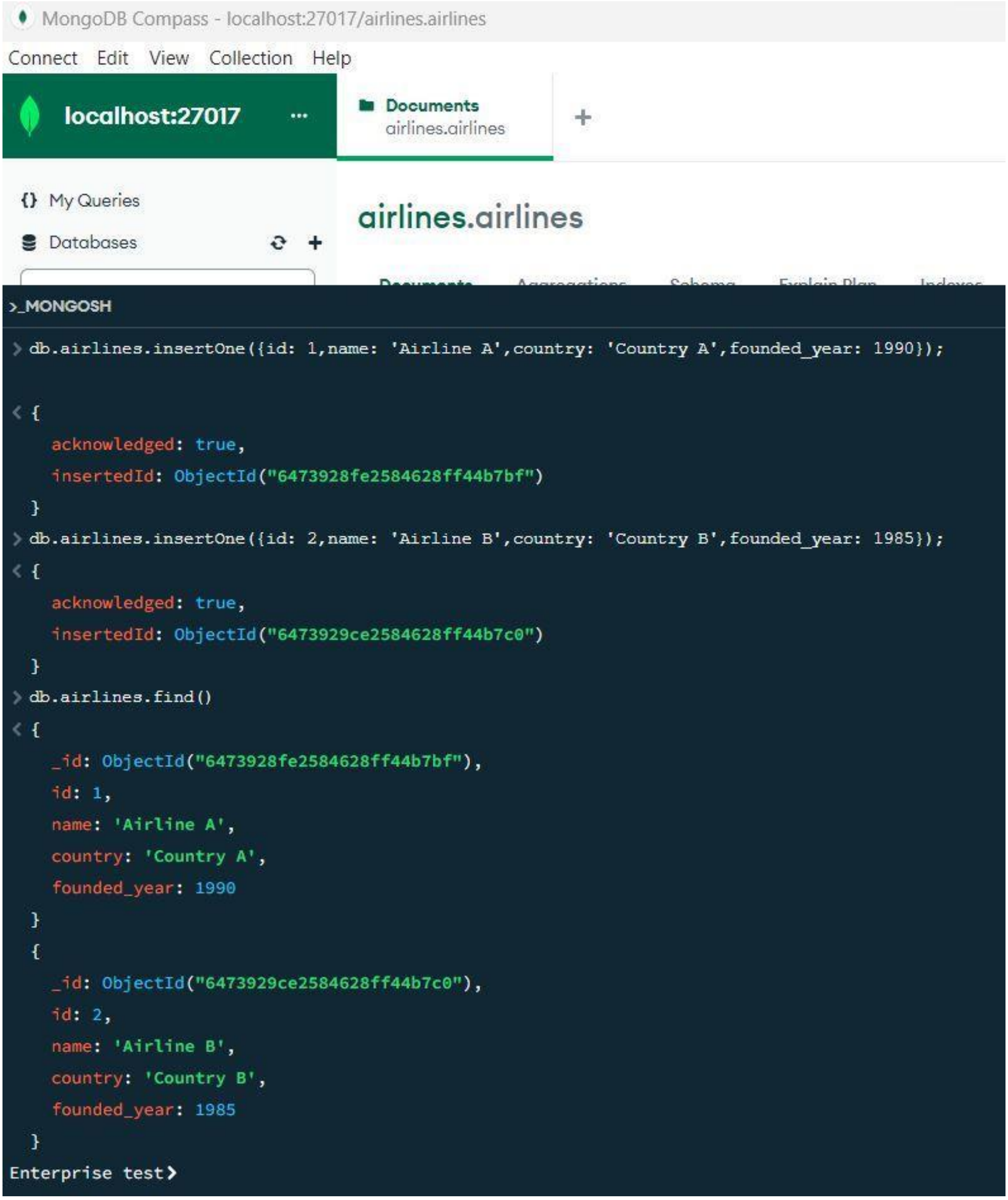
```
  id: 1,
  name: 'Airline A',
  country: 'Country A',
  founded_year: 1990
});

db.airlines.insertOne({
  id: 2,
  name: 'Airline B',
  country: 'Country B',
  founded_year: 1985
});

db.flights.insertOne({
  id: 1,
  airline_id: 1,
  flight_number: 'A100',
  origin: 'City X',
  destination: 'City Y',
  departure_time: ISODate('2023-05-28T10:00:00Z'),
  arrival_time: ISODate('2023-05-28T12:00:00Z')
});
```

```
db.flights.insertOne({

  id: 2,

  airline_id: 2,

  flight_number: 'B200',

  origin: 'City Y',

  destination: 'City Z',

  departure_time: ISODate('2023-05-28T14:00:00Z'),

  arrival_time: ISODate('2023-05-28T16:00:00Z')

});
```

Screenshot:

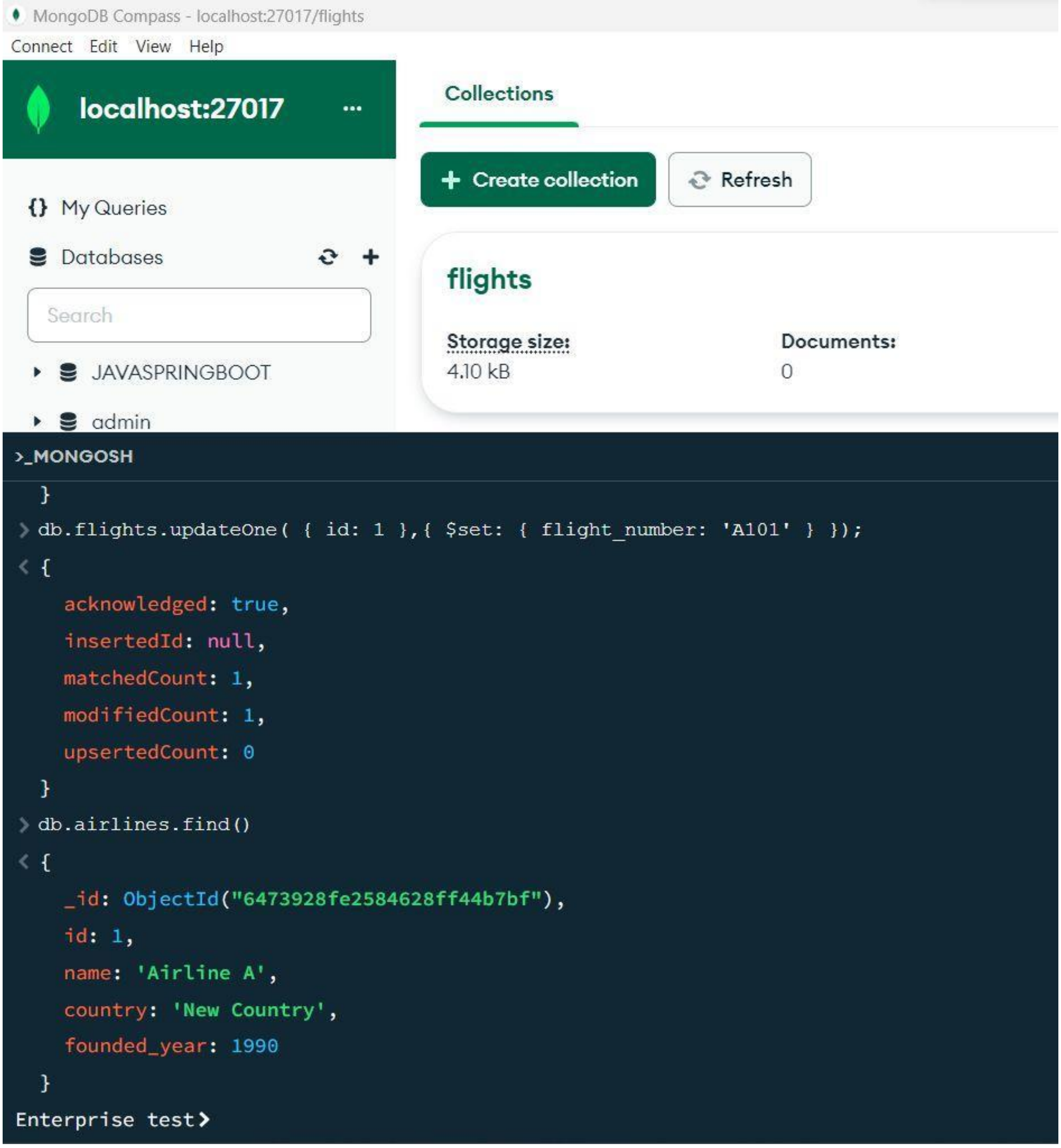


```
> db.flights.insertOne({id: 1,airline_id: 1,flight_number: 'A100',origin: 'City X',destination: 'City Y',departure_time:ISODate('2023-05-28T10:00:00Z'),arrival_time:ISODate('2023-05-28T12:00:00Z')});
< {
    acknowledged: true,
    insertedId: ObjectId("647393af3b0edd519c8f51d6")
  }
> db.flights.insertOne({id: 2,airline_id: 2,flight_number: 'B200',origin: 'City Y',destination: 'City Z',departure_time: ISODate('2023-05-28T14:00:00Z'),arrival_time: ISODate('2023-05-28T16:00:00Z')});
< {
    acknowledged: true,
    insertedId: ObjectId("647393bf3b0edd519c8f51d7")
  }
> db.flights.find()
< {
    _id: ObjectId("647393af3b0edd519c8f51d6"),
    id: 1,
    airline_id: 1,
    flight_number: 'A100',
    origin: 'City X',
    destination: 'City Y',
    departure_time: 2023-05-28T10:00:00.000Z,
    arrival_time: 2023-05-28T12:00:00.000Z
  }
  {
    _id: ObjectId("647393bf3b0edd519c8f51d7"),
    id: 2,
    airline_id: 2,
    flight_number: 'B200',
    origin: 'City Y',
    destination: 'City Z',
    departure_time: 2023-05-28T14:00:00.000Z,
    arrival_time: 2023-05-28T16:00:00.000Z
  }
Enterprise test>
```

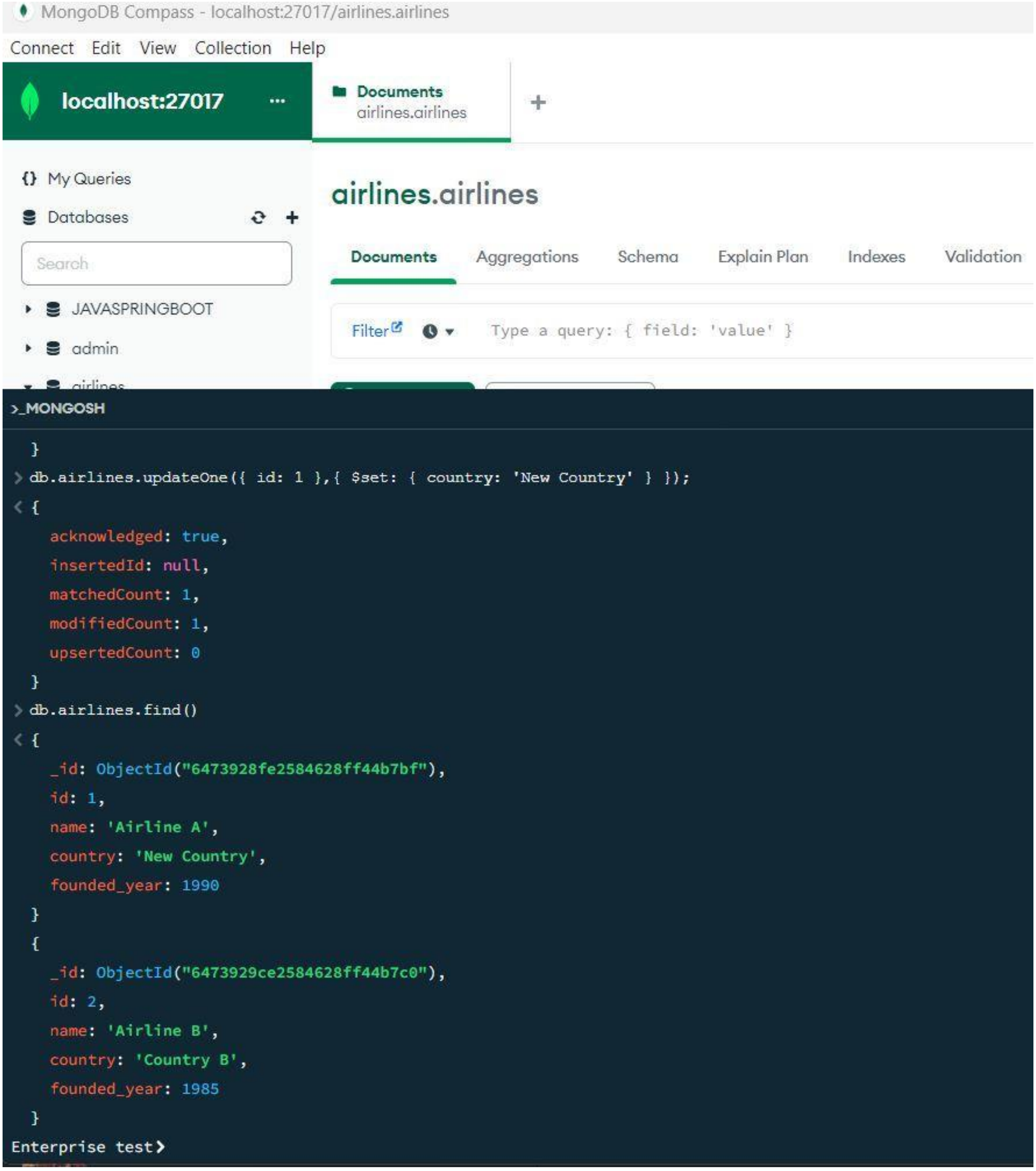


```
> db.airlines.insertOne({id: 1,name: 'Airline A',country: 'Country A',founded_year: 1990});

< {
    acknowledged: true,
    insertedId: ObjectId("6473928fe2584628ff44b7bf")
  }
> db.airlines.insertOne({id: 2,name: 'Airline B',country: 'Country B',founded_year: 1985});
< {
    acknowledged: true,
    insertedId: ObjectId("6473929ce2584628ff44b7c0")
  }
> db.airlines.find()
< {
    _id: ObjectId("6473928fe2584628ff44b7bf"),
    id: 1,
    name: 'Airline A',
    country: 'Country A',
    founded_year: 1990
  }
  {
    _id: ObjectId("6473929ce2584628ff44b7c0"),
    id: 2,
    name: 'Airline B',
    country: 'Country B',
    founded_year: 1985
  }
Enterprise test>
```

Update command:

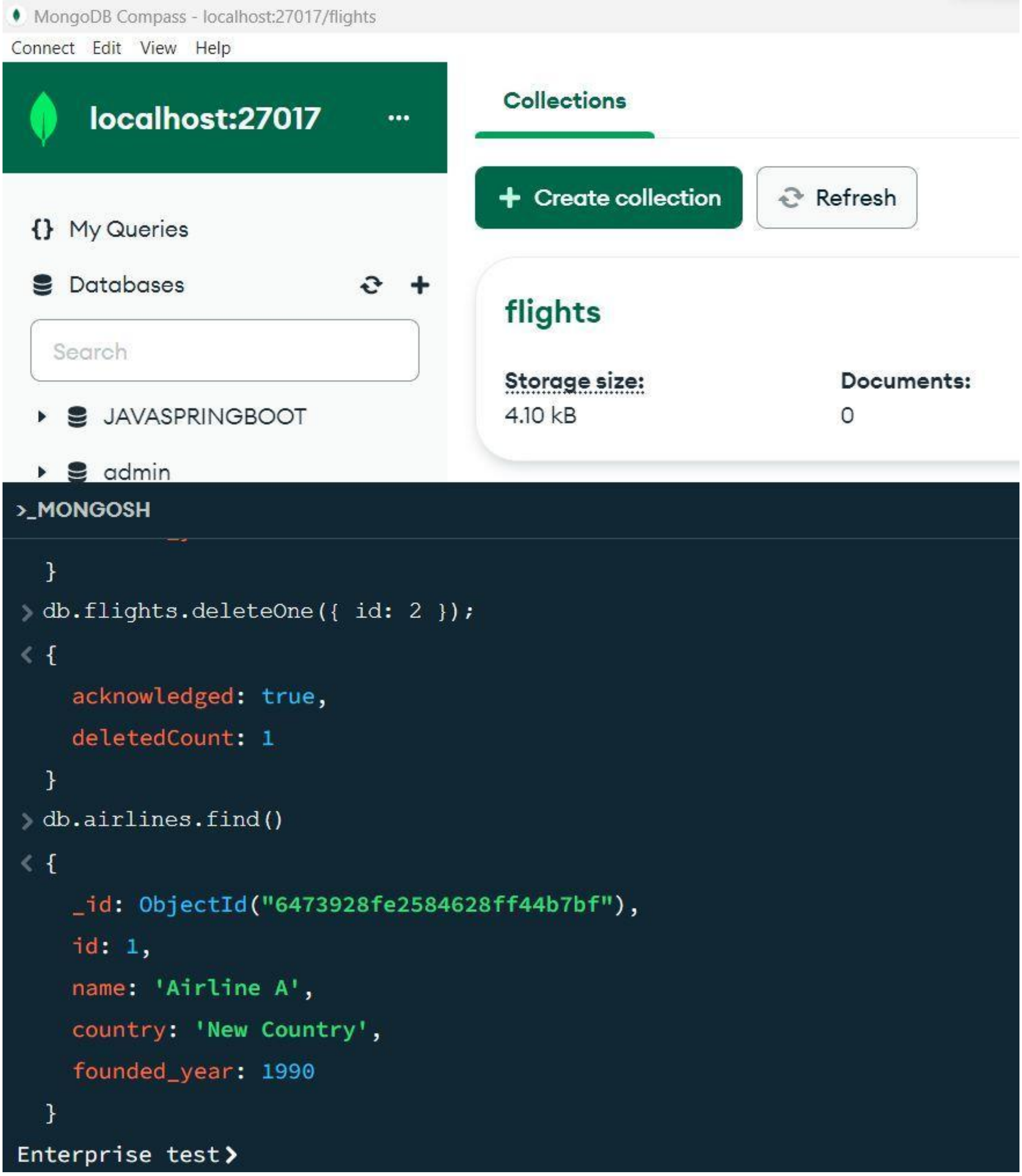


```
  }
> db.flights.updateOne( { id: 1 },{ $set: { flight_number: 'A101' } });
< {
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 1,
    upsertedCount: 0
  }
> db.airlines.find()
< {
    _id: ObjectId("6473928fe2584628ff44b7bf"),
    id: 1,
    name: 'Airline A',
    country: 'New Country',
    founded_year: 1990
  }
Enterprise test>
```

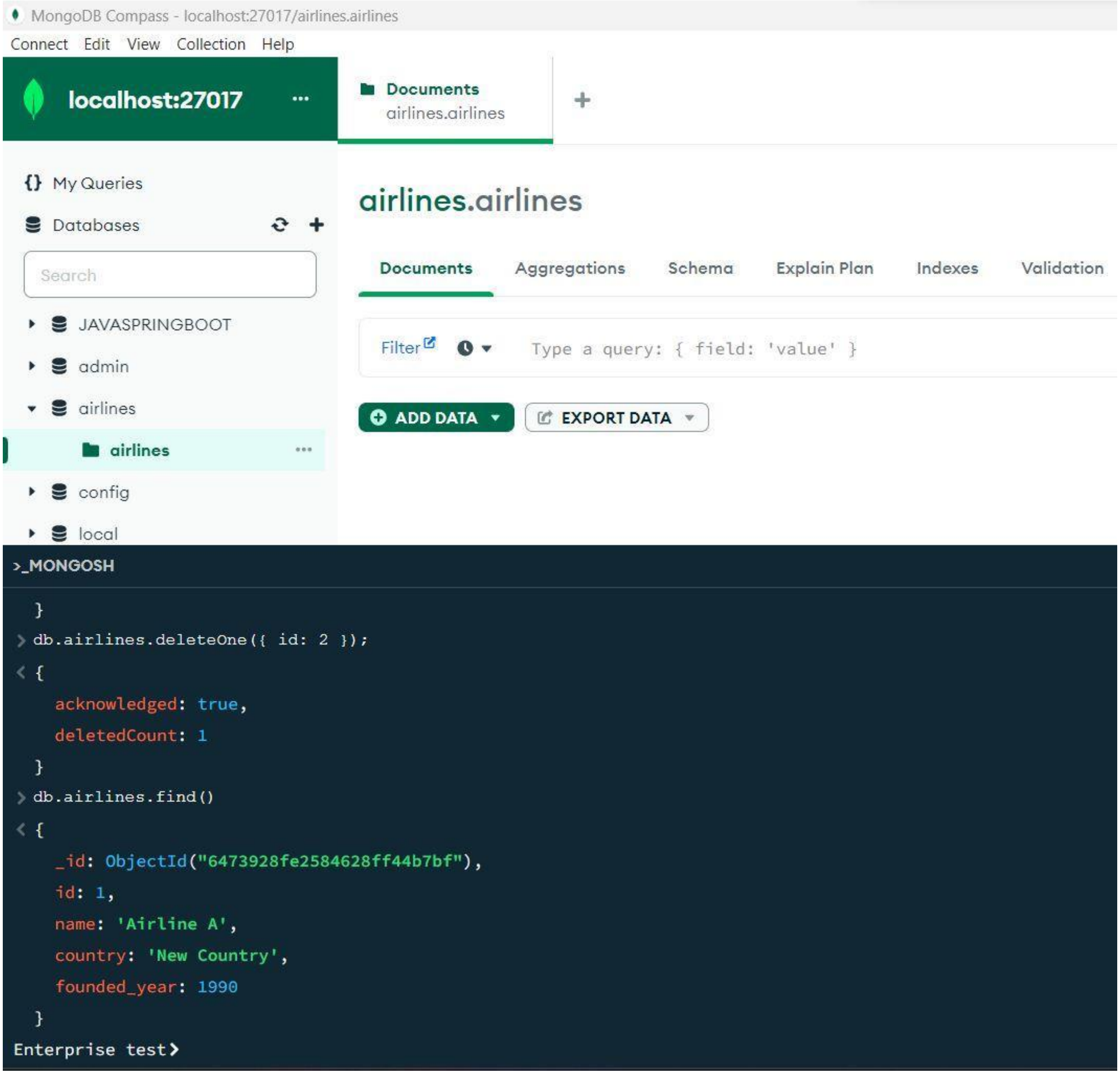

MongoDB Compass - localhost:27017/airlines.airlines
Connect Edit View Collection Help
localhost:27017
Documents
airlines.airlines
My Queries
Databases
Search
JAVASPRINGBOOT
admin
airlines
airlines.airlines
Documents Aggregations Schema Explain Plan Indexes Validation
Filter
Type a query: { field: 'value' }
>_MONGOSH

```
  }
> db.airlines.updateOne({ id: 1 },{ $set: { country: 'New Country' } });
< {
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 1,
    upsertedCount: 0
  }
> db.airlines.find()
< {
    _id: ObjectId("6473928fe2584628ff44b7bf"),
    id: 1,
    name: 'Airline A',
    country: 'New Country',
    founded_year: 1990
  }
  {
    _id: ObjectId("6473929ce2584628ff44b7c0"),
    id: 2,
    name: 'Airline B',
    country: 'Country B',
    founded_year: 1985
  }
Enterprise test>
```

Delete command:



```
  }
> db.flights.deleteOne({ id: 2 });
< {
    acknowledged: true,
    deletedCount: 1
  }
> db.airlines.find()
< {
    _id: ObjectId("6473928fe2584628ff44b7bf"),
    id: 1,
    name: 'Airline A',
    country: 'New Country',
    founded_year: 1990
  }
Enterprise test>
```



```
  }
> db.airlines.deleteOne({ id: 2 });
< {
    acknowledged: true,
    deletedCount: 1
  }
> db.airlines.find()
< {
    _id: ObjectId("6473928fe2584628ff44b7bf"),
    id: 1,
    name: 'Airline A',
    country: 'New Country',
    founded_year: 1990
  }
Enterprise test>
```