**EXPERIMENT-2**

**AIM:** Create a Database related to Bus Ticket Reservation System and perform CRUD operations using MongoDB:

**Bus Ticket Reservation System:**

**Creation of Database:**

Test> use BTRS\_532

Output: switched to db BTRS\_532

**1.Creation of Bus Collection:**

BTRS\_532> db.createCollection("Bus")

Output: { ok: 1 }

**Inserting Documents:**

**Using insertOne()**

BTRS\_532> db.Bus.insertOne({'B\_no':'111','Driver\_name':'Manoj','Source':'Bilghaav', 'Destination':'Delhi','No\_of\_Seats':'60','Timings':'6AM - 10PM','Depot':'Delhi'})

Output:

{

acknowledged: true,

insertedId: ObjectId('65cb352c8016f93a9e0bf868')

}

**Using insertMany()**

BTRS\_532> db.Bus.insertMany([{'B\_no':'222','Driver\_name':'Zenitsu','Source':'Tokyo',' Destination':'Tokyo City','No\_of\_Seats':'70','Timings':'6AM - 10PM','Depot':'Tokyo'}, {'B\_no':'112', 'Driver\_name':'Kumar','Source':'Gudivada','Destination':'Gudlavalleru','No\_of\_Seats':'80','Timings':'7AM - 7PM','Depot':'Gdv'}])

Output:

{

acknowledged: true,

insertedIds: {

'0': ObjectId('65cb36858016f93a9e0bf869'),

'1': ObjectId('65cb36858016f93a9e0bf86a')

}

}

**Retrieving Documents:**

BTRS\_532> db.Bus.find({})

Output:

{

\_id: ObjectId('65cb352c8016f93a9e0bf868'),

B\_no: '111',

Driver\_name: 'Manoj',

Source: 'Bilghaav',

Destination: 'Delhi',

No\_of\_Seats: '60',

Timings: '6AM - 10PM',

Depot: 'Delhi'

}

{

\_id: ObjectId('65cb36858016f93a9e0bf869'),

B\_no: '222',

Driver\_name: 'Zenitsu',

Source: 'Tokyo',

Destination: 'Tokyo City',

No\_of\_Seats: '70',

Timings: '6AM - 10PM',

Depot: 'Tokyo'

}

{

\_id: ObjectId('65cb36858016f93a9e0bf86a'),

B\_no: '112',

Driver\_name: 'Kumar',

Source: 'Gudivada',

Destination: 'Gudlavalleru',

No\_of\_Seats: '80',

Timings: '7AM - 7PM',

Depot: 'Gdv'

}

Limit function:

BTRS\_532> db.Bus.find().limit(1)

Output:

{

\_id: ObjectId('65cb352c8016f93a9e0bf868'),

B\_no: '111',

Driver\_name: 'Manoj',

Source: 'Bilghaav',

Destination: 'Delhi',

No\_of\_Seats: '60',

Timings: '6AM - 10PM',

Depot: 'Delhi'

}

**Updating Documents:**

BTRS\_532> db.Bus.updateOne({'B\_no':'111'},{$set:{'Driver\_name':'Manoj Kumar Sharma'}})

{

acknowledged: true,

insertedId: null,

matchedCount: 1,

modifiedCount: 1,

upsertedCount: 0

}

BTRS\_532> db.Bus.find({'B\_no':'111'})

{

\_id: ObjectId('65cb352c8016f93a9e0bf868'),

B\_no: '111',

Driver\_name: 'Manoj Kumar Sharma',

Source: 'Bilghaav',

Destination: 'Delhi',

No\_of\_Seats: '60',

Timings: '6AM - 10PM',

Depot: 'Delhi'

}

**Deleting Documents:**

BTRS\_532> db.Bus.deleteOne({'B\_no':'222'})

{

acknowledged: true,

deletedCount: 1

}

**2.Creation of Driver Collection:**

BTRS\_532> db.createCollection("Driver")

Output: { ok: 1 }

**Inserting Documents:**

BTRS\_532> db.Driver.insertOne({'D\_id':'101','Driver\_name':'Kumar','Phno':'1234567890', 'Age':'35', 'Salary':'25000'})

Output:

{

acknowledged: true,

insertedId: ObjectId('65cb393a8016f93a9e0bf86b')

}

**Retrieving Documents:**

BTRS\_532> db.Driver.find({})

Output:

{

\_id: ObjectId('65cb393a8016f93a9e0bf86b'),

D\_id: '101',

Driver\_name: 'Kumar',

Phno: '1234567890',

Age: '35',

Salary: '25000'

}

**Updating Documents:**

BTRS\_532> db.Driver.updateOne({'D\_id':'101'},{$set:{'D\_id':'121'}})

Output:

{

acknowledged: true,

insertedId: null,

matchedCount: 1,

modifiedCount: 1,

upsertedCount: 0

}

Retrieve:

BTRS\_532> db.Driver.find({})

Output:

{

\_id: ObjectId('65cb393a8016f93a9e0bf86b'),

D\_id: '121',

Driver\_name: 'Kumar',

Phno: '1234567890',

Age: '35',

Salary: '25000'

}

**Deleting Documents:**

BTRS\_532> db.Driver.deleteOne({'D\_id':'121'})

{

acknowledged: true,

deletedCount: 1

}

**3.Creation of Passenger Collection:**

BTRS\_532> db.createCollection("Passenger")

Output: { ok: 1 }

**Inserting Documents:**

BTRS\_532> db.Passenger.insertOne({'Name':'Manohar','Aadhar\_no':'112233445566','Age':'21', 'Seat\_no':'32','Ticket\_no':'1133','Gender':'Male','Travel\_Date':'13-03-2024','From-To':'Gudivada - Nuzvid'})

Output:

{

acknowledged: true,

insertedId: ObjectId('65cb3bbf8016f93a9e0bf86c')

}

**Retrieving Documents:**

BTRS\_532> db.Passenger.find()

Output:

{

\_id: ObjectId('65cb3bbf8016f93a9e0bf86c'),

Name: 'Manohar',

Aadhar\_no: '112233445566',

Age: '21',

Seat\_no: '32',

Ticket\_no: '1133',

Gender: 'Male',

Travel\_Date: '13-03-2024',

'From-To': 'Gudivada - Nuzvid'

}

**Updating Documents:**

BTRS\_532> db.Passenger.updateOne({'Seat\_no':'32'},{$set:{'Age':'20'}})

Output:

{

acknowledged: true,

insertedId: null,

matchedCount: 1,

modifiedCount: 1,

upsertedCount: 0

}

BTRS\_532> db.Passenger.find()

{

\_id: ObjectId('65cb3bbf8016f93a9e0bf86c'),

Name: 'Manohar',

Aadhar\_no: '112233445566',

Age: '20',

Seat\_no: '32',

Ticket\_no: '1133',

Gender: 'Male',

Travel\_Date: '13-03-2024',

'From-To': 'Gudivada - Nuzvid'

}

**4.Creation of Ticket collection:**

BTRS\_532> db.createCollection("Ticket")

Output: { ok: 1 }

**Inserting Documents:**

BTRS\_532> db.Ticket.insertOne({'Ticket\_id':'125','Pass\_id':'5566','Bus\_no':'115','Ticket\_no':'1125', 'Time':'09:48:55','From\_To':'Gudivada - Nuzvid'})

Output:

{

acknowledged: true,

insertedId: ObjectId('65cb3d898016f93a9e0bf86d')

}

**Retrieving Documents:**

BTRS\_532> db.Ticket.find()

Output:

{

\_id: ObjectId('65cb3d898016f93a9e0bf86d'),

Ticket\_id: '125',

Pass\_id: '5566',

Bus\_no: '115',

Ticket\_no: '1125',

Time: '09:48:55',

From\_To: 'Gudivada - Nuzvid'

}

**Updating Documents:**

BTRS\_532> db.Ticket.updateOne({'Bus\_no':'115'},{$set:{'Bus\_no':'121'}})

{

acknowledged: true,

insertedId: null,

matchedCount: 1,

modifiedCount: 1,

upsertedCount: 0

}

BTRS\_532> db.Ticket.find()

{

\_id: ObjectId('65cb3d898016f93a9e0bf86d'),

Ticket\_id: '125',

Pass\_id: '5566',

Bus\_no: '121',

Ticket\_no: '1125',

Time: '09:48:55',

From\_To: 'Gudivada - Nuzvid'

}

**Deleting Documents:**

BTRS\_532> db.Ticket.deleteOne({'Ticket\_id':'125'})

{

acknowledged: true,

deletedCount: 1

}