PROGRAM2:

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

CREATION OF DATABASE:

test> use BTRS

switched to db BTRS

CREATE COLLECTION Drivers:

BTRS>db.createCollection("drivers")

{ ok: 1 }

CREATE COLLECTION Bus:

BTRS> db.createCollection("bus")

{ ok: 1 }

CREATE COLLECTION Passenger:

BTRS> db.createCollection("passenger")

{ ok: 1 }

CREATE COLLECTION Transaction:

BTRS> db.createCollection("transaction")

{ ok: 1 }

CREATE COLLECTION Depo:

BTRS> db.createCollection("depo")

{ ok: 1 }

CREATE COLLECTION Source:

BTRS> db.createCollection("source")

{ ok: 1 }

CREATE COLLECTION Destination:

BTRS> db.createCollection("destination")

CREATE COLLECTION Tickets:

BTRS> db.createCollection("tickets")

{ ok: 1 }

INSERTING DOCUMENTS:

1.FOR Driver COLLECTION:

```
BTRS>db.drivers.insertMany([{'driverId':'d887','busId':'b7765','drivername':'rambabu','driverpn
o':'23/6'},{'driverId':'d088','busId':'b0765','drivername':'lokhnath','driverpno':'65-
90'},{'driverId':'d65','busId':'b507','drivername':'subbarao','driverpno':'20/6'}])
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("63ec9d640f5a0d4d2f1497b3"),
    '1': ObjectId("63ec9d640f5a0d4d2f1497b4"),
    '2': ObjectId("63ec9d640f5a0d4d2f1497b5")
  }
}
```

2.FOR Bus COLLECTION:

```
BTRS>db.bus.insertMany([{'busId':'b998','busno':'Ap23Ay5464','seats':'76','depocity':'machilipat
nam','’driverId':'d887','to':'nellore','from':'machilipatnam'},

{'busId':'b065','busno':'Ap16Ay9866','seats':'77','depocity':'machilipatnam','driverId':'d085','to':'
hyderabad','from':'machilipatnam'},

{'busId':'b99','busno':'Ap13Ay8876','seats':'90','depocity':'machilipatnam','driverId':'d097','to':'v
ijayawada','from':'machilipatnam'}])
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("63ec9e130f5a0d4d2f1497b6"),
    '1': ObjectId("63ec9e130f5a0d4d2f1497b7"),
```

```
    '2': ObjectId("63ec9e130f5a0d4d2f1497b8")
  }
}
```

3.FOR Ticket COLLECTION:

BTRS>db.ticket.insertMany([{'rId':'r554','busId':'b887','source':'machilipatnam','destination':'hyderabad','pId':'p880','resdate':'13/3/2022','travellingdate':'16/3/2022','ticketnumber':'tap643','seatnumber':'sl123'},

{'rId':'r55','busId':'b87','source':'vizag','destination':'kurnool','pId':'p80','resdate':'13/3/2023','travellingdate':'14/3/2023','ticketnumber':'tasp143','seatnumber':'sl30'},

{'rId':'r904','busId':'b807','source':'vijayawada','destination':'hyderabad','pId':'p890','resdate':'10/12/2022','travellingdate':'11/12/2022','ticketnumber':'tsp643','seatnumber':'sl023'}])

```
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("63ec9fab0f5a0d4d2f1497b9"),
    '1': ObjectId("63ec9fab0f5a0d4d2f1497ba"),
    '2': ObjectId("63ec9fab0f5a0d4d2f1497bb")
  }
}
```

4.FOR Passenger COLLECTION:

BTRS>db.passenger.insertMany([{'pId':'p99','busno':'ap14Ay2232','pname':'sandeesh','age':21,'gender':'male','phno':9122367601,'address':'gajuvaka,khaza','source':'machilipatnam','destination':'nellore','ticketcost':'3000','seatnumber':'sl77'},

{'pId':'p855','busno':'ap16Ay2102','pname':'revathi','age':20,'gender':'female','phno':9184848801,'address':'mudenepalli','source':'chirala','destination':'amaravathi','ticketcost':'9000','seatnumber':'sp07'}])

```
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("63eca1c80f5a0d4d2f1497bc"),
```

```
     '1': ObjectId("63eca1c80f5a0d4d2f1497bd")

  }

}
```

5.FOR Depo COLLECTION:

```
BTRS>db.depo.insertMany([{'depoId':'dAp0866','deponame':'gajuvakadepo','location':'ameerpe
t','busId':'b998','owner':'sandeesh'},

{'depoId':'dspp0878','deponame':'gunthagal','location':'kurnool','busId':'b018','owner':'praneet
h'},

{'depoId':'dAp0916','deponame':'MGBS','location':'mgbs','busId':'b198','owner':'srinu'}])

{

  acknowledged: true,

  insertedIds: {

   '0': ObjectId("63eca3570f5a0d4d2f1497be"),

   '1': ObjectId("63eca3570f5a0d4d2f1497bf"),

   '2': ObjectId("63eca3570f5a0d4d2f1497c0")

  }

}
```

6.FOR Transaction COLLECTION:

```
BTRS>db.transaction.insertMany([{'paymentId':'paytm8866w23','pId':'p88','rId':'r655','transacti
onDate':'20/11/2022','travellingDate':'25/11/2022'},

{'paymentId':'gpay7h7h9','pId':'p805','rId':'r605','transactionDate':'20/12/2020','travellingDate':'
25/12/2020'},

{'paymentId':'phonepe6x763','pId':'p808','rId':'r155','transactionDate':'10/10/2023','travellingD
ate':'15/10/2023'}])

{

  acknowledged: true,

  insertedIds: {

   '0': ObjectId("63eca57b0f5a0d4d2f1497c3"),

   '1': ObjectId("63eca57b0f5a0d4d2f1497c4"),
```

'2': ObjectId("63eca57b0f5a0d4d2f1497c5")

  }

}

7.FOR Source COLLECTION:

BTRS>db.source.insertMany([{'startDate':'23/12/2022','startTime':'9.00pm','sourceCity':'machili
patnam'},

{'startDate':'21/11/2021','startTime':'10.00pm','sourceCity':'hyderabad'},

{'startDate':'3/10/2021','startTime':'7.00Am','sourceCity':'kurnool'}])

{

  acknowledged: true,

  insertedIds: {

   '0': ObjectId("63eca84f0f5a0d4d2f1497c6"),

   '1': ObjectId("63eca84f0f5a0d4d2f1497c7"),

   '2': ObjectId("63eca84f0f5a0d4d2f1497c8")

  }

}

8.FOR Destination COLLECTION:

BTRS>db.destination.insertMany([{'endDate':'3/2/2022','endTime':'1.00pm','destinationCity':'m
achilipatnam'},

{'endDate':'1/9/2023','endTime':'10.30Am','destinationCity':'bhimavaram'},

{'endDate':'13/9/2021','endTime':'11.00Am','destinationCity':'vizag'}])

{

  acknowledged: true,

  insertedIds: {

   '0': ObjectId("63eca92a0f5a0d4d2f1497c9"),

   '1': ObjectId("63eca92a0f5a0d4d2f1497ca"),

   '2': ObjectId("63eca92a0f5a0d4d2f1497cb")

  }

}

Retrieving Documents Of Passenger:

```
BTRS> db.passenger.find()
[
  {
    _id: ObjectId("63eca1c80f5a0d4d2f1497bc"),
    pId: 'p99',
    busno: 'ap14Ay2232',
    pname: 'sandeesh',
    age: 21,
    gender: 'male',
    phno: 9122367601,
    address: 'gajuvaka,khaza',
    source: 'machilipatnam',
    destination: 'nellore',
    ticketcost: '3000',
    seatnumber: 'sl77'
  },
  {
    _id: ObjectId("63eca1c80f5a0d4d2f1497bd"),
    pId: 'p855',
    busno: 'ap16Ay2102',
    pname: 'revathi',
    age: 20,
    gender: 'female',
    phno: 9184848801,
    address: 'mudenepalli',
```

```
    source: 'chirala',

    destination: 'amaravathi',

    ticketcost: '9000',

    seatnumber: 'sp07'

  }

]
```

Retrieving Documents Of Transcation With Specific ID:

```
BTRS> db.transaction.find({'paymentId':'paytm8866w23'})

[
 {
   _id: ObjectId("63eca4a70f5a0d4d2f1497c1"),

   paymentId: 'paytm8866w23',

   pId: 'p88',

   rId: 'r655',

   transactionDate: '20/11/2022',

   travellingDate: '25/11/2022'

 },
 {
   _id: ObjectId("63eca4a70f5a0d4d2f1497c2"),

   paymentId: 'paytm8866w23',

   pId: 'p7'

 },
 {
   _id: ObjectId("63eca57b0f5a0d4d2f1497c3"),

   paymentId: 'paytm8866w23',

   pId: 'p88',

   rId: 'r655',
```

transactionDate: '20/11/2022',

    travellingDate: '25/11/2022'

  }

]

DELETE DOCUMENTS:

BEFORE DELETING: BTRS> db.depo.find()

[

 {

  _id: ObjectId("63eca3570f5a0d4d2f1497be"),

  depoId: 'dAp0866',

  deponame: 'gajuvakadepo',

  location: 'ameerpet',

  busId: 'b998',

  owner: 'sandeesh'

 },

 {

  _id: ObjectId("63eca3570f5a0d4d2f1497bf"),

  depoId: 'dspp0878',

  deponame: 'gunthagal',

  location: 'kurnool',

  busId: 'b018',

  owner: 'praneeth'

 },

 {

  _id: ObjectId("63eca3570f5a0d4d2f1497c0"),

  depoId: 'dAp0916',

  deponame: 'MGBS',

```
      location: 'mgbs',

      busId: 'b198',

      owner: 'srinu'

  }

]
```

AFTER DELETE OPERATION:

>>>

BTRS> db.depo.deleteOne({'deponame':'kurnool'})

{ acknowledged: true, deletedCount: 0 }

>>>

BTRS> db.depo.deleteOne({'deponame':'gajuvakadepo'})

{ acknowledged: true, deletedCount: 1 }

RETRIEVING DOCUMNETS:

BTRS> db.depo.find()

```
[

 {

   _id: ObjectId("63eca3570f5a0d4d2f1497bf"),

   depoId: 'dspp0878',

   deponame: 'gunthagal',

   location: 'kurnool',

   busId: 'b018',

   owner: 'praneeth'

 },

 {

   _id: ObjectId("63eca3570f5a0d4d2f1497c0"),

   depoId: 'dAp0916',

   deponame: 'MGBS',
```

```
    location: 'mgbs',

    busId: 'b198',

    owner: 'srinu'

  }

]
```

UPDATING DOCUMENTS:

>>>

BEFORE UPDATION:

```
BTRS> db.drivers.find()

[

 {

   _id: ObjectId("63ec9d640f5a0d4d2f1497b3"),

   driverId: 'd887',

   busId: 'b7765',

   drivername: 'rambabu',

   driverpno: '23/6'

 },

 {

   _id: ObjectId("63ec9d640f5a0d4d2f1497b4"),

   driverId: 'd088',

   busId: 'b0765',

   drivername: 'lokhnath',

   driverpno: '65-90'

 },

 {

   _id: ObjectId("63ec9d640f5a0d4d2f1497b5"),

   driverId: 'd65',
```

```
    busId: 'b507',

    drivername: 'subbarao',

    driverpno: '20/6'

  }

]
```

UPDATE ONE:

```
BTRS> db.drivers.updateOne({'busId':'b7765'},{$set:{'busId':'b7'}})

{

  acknowledged: true,

  insertedId: null,

  matchedCount: 1,

  modifiedCount: 1,

  upsertedCount: 0

}
```

AFTER UPDATION:

```
BTRS> db.drivers.find()

[

 {

  _id: ObjectId("63ec9d640f5a0d4d2f1497b3"),

  driverId: 'd887',

  busId: 'b7',

  drivername: 'rambabu',

  driverpno: '23/6'

 },

 {

  _id: ObjectId("63ec9d640f5a0d4d2f1497b4"),

  driverId: 'd088',
```

```
    busId: 'b0765',

    drivername: 'lokhnath',

    driverpno: '65-90'

  },

  {

    _id: ObjectId("63ec9d640f5a0d4d2f1497b5"),

    driverId: 'd65',

    busId: 'b507',

    drivername: 'subbarao',

    driverpno: '20/6'

  }

]
```

UPDATE MANY:

```
BTRS> db.transaction.updateMany({'pId':'p805'},{$set:{'pId':'p97','rId':'wew'}})

{

  acknowledged: true,

  insertedId: null,

  matchedCount: 1,

  modifiedCount: 1,

  upsertedCount: 0

}
```

AFTER UPDATION:

```
BTRS> db.transaction.find()

[

  {

    _id: ObjectId("63eca4a70f5a0d4d2f1497c1"),

    paymentId: 'paytm8866w23',
```

```
  pId: 'p88',

  rId: 'r655',

  transactionDate: '20/11/2022',

  travellingDate: '25/11/2022'

},

{

  _id: ObjectId("63eca4a70f5a0d4d2f1497c2"),

  paymentId: 'paytm8866w23',

  pId: 'p7'

},

{

  _id: ObjectId("63eca57b0f5a0d4d2f1497c3"),

  paymentId: 'paytm8866w23',

  pId: 'p88',

  rId: 'r655',

  transactionDate: '20/11/2022',

  travellingDate: '25/11/2022'

},

{

  _id: ObjectId("63eca57b0f5a0d4d2f1497c4"),

  paymentId: 'gpay7h7h9',

  pId: 'p97',

  rId: 'wew',

  transactionDate: '20/12/2020',

  travellingDate: '25/12/2020'

},

{
```

```
    _id: ObjectId("63eca57b0f5a0d4d2f1497c5"),

    paymentId: 'phonepe6x763',

    pId: 'p808',

    rId: 'r155',

    transactionDate: '10/10/2023',

    travellingDate: '15/10/2023'

  }

]
```