## **Assignment-1**

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#### Requirements

- I work in a multiplayer online gaming company.
- Design a mongodb database, where collections can be playerProfile, sessions and transactions.
- Use embedding and referencing to link different collections accordingly.

#### 1. playerProfile collection

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```

#### 2. Transactions collection

 Since playerProfile doesn't have any field related to transactions, so we need to add them up using updateOne method and \$set operator

```
~: mongosh —
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game> db.playerProfile.updateOne({name: 'Suyan'},{$set: {payments: [1, 2]}})
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
game> db.playerProfile.updateOne({name: 'Shristi'},{$set: {payments: [3, 4]}})
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
game> db.playerProfile.find()
    _id: 1,
name: 'Suyan',
age: 30,
    contact: [
      { type: 'email', details: 'suyan@gmail.com' },
{ type: 'phone', details: '123' }
    payments: [ 1, 2 ]
    _id: 2,
name: 'Shristi',
    age: 29,
    contact: [
       { type: 'email', details: 'shristi@gmail.com' },
{ type: 'phone', details: '456' }
    payments: [ 3, 4 ]
```

Now, we can use lookup operator to join these collections

 Instead of having seperate fields like payments and transactionDetails after aggregation, we can give same value to both localField and as which will then give out a common field as result.

### 3. gameSessions collection

Updating playerProfile with sessions field to connect to gameSessions collection

```
game> db.playerProfile.updateOne({name: 'Suyan'}, {$set: {sessions: [1,2]}})
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
game> db.playerProfile.updateOne({name: 'Shristi'}, {$set: {sessions: [3, 4, 5]}})
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
modifiedCount: 1,
  upsertedCount: 0
game> db.playerProfile.updateOne({name: 'Rupali'}, {$set: {sessions: [6, 7]}})
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
modifiedCount: 1,
  upsertedCount: 0
game> db.playerProfile.updateOne({name: 'Utsav'}, {$set: {sessions: [8]}})
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
```

# using lookup operator to link playerProfile and gameSessions

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