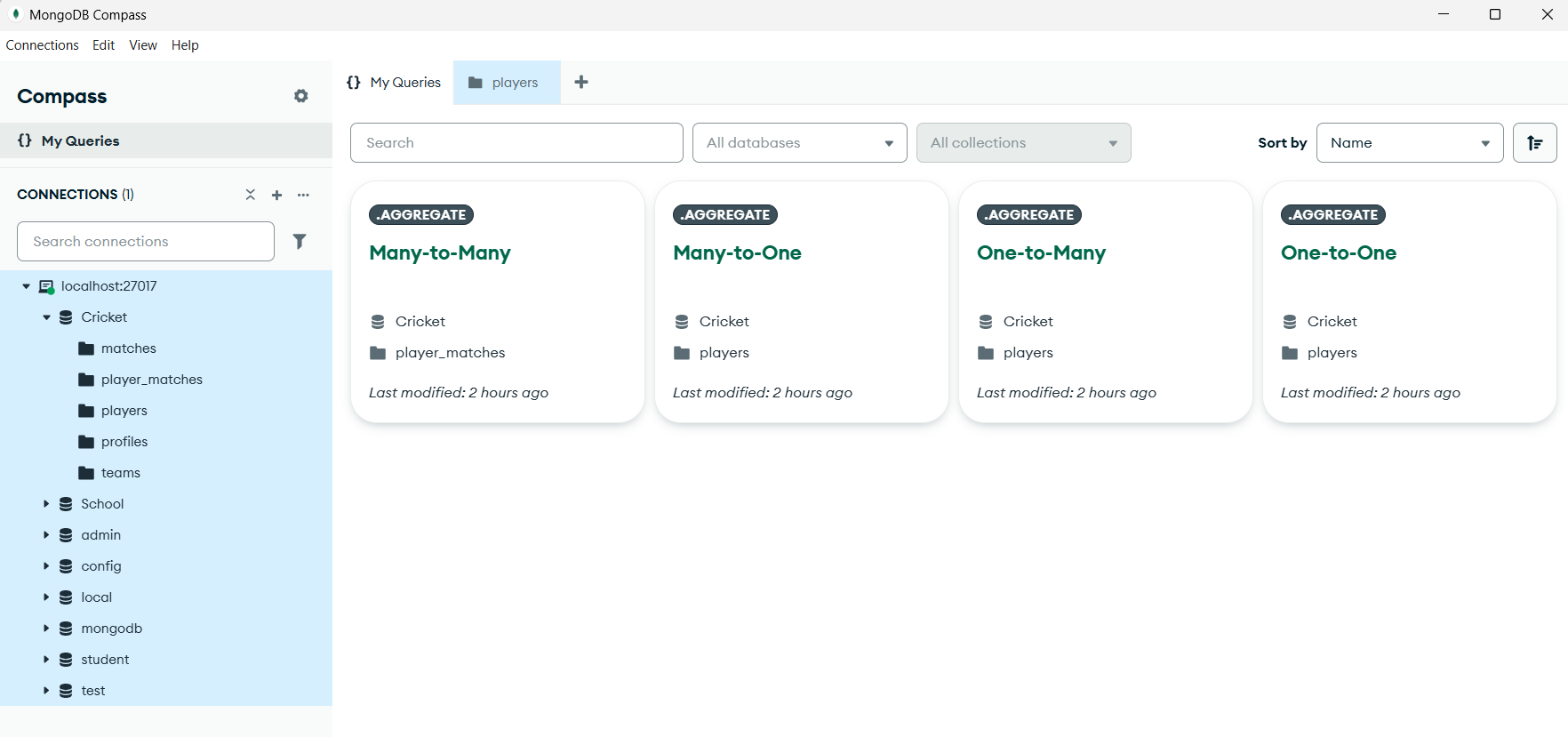
**Coding Assessment – MongoDB**

**Relationships in MongoDB**

* One-to-One Relationships
* One-to-Many Relationships
* Many-to-One Relationships
* Many-to-Many Relationships



**Collections**

* players
* profiles
* matches
* teams
* player\_matches

**players collection with inserted Documents**

{"\_id": 1,

"name": "Virat Kohli",

"role": "Batsman",

"team\_id": 1}

{"\_id": 2,

"name": "Jasprit Bumrah",

"role": "Bowler",

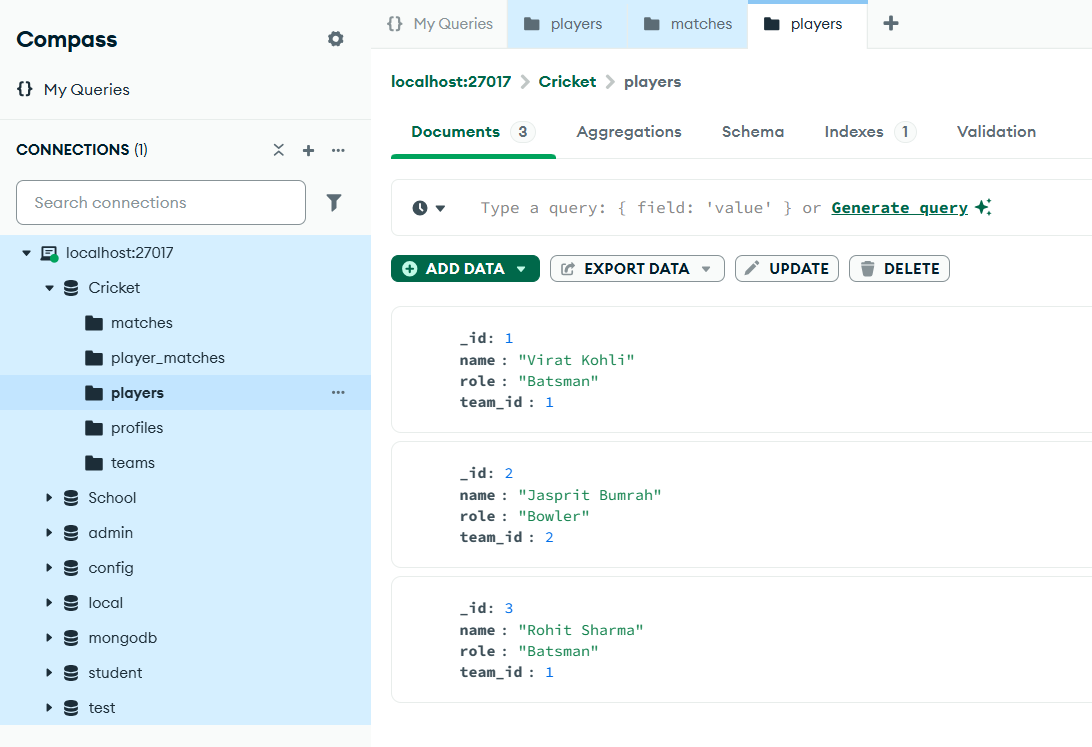
"team\_id": 2}

{"\_id": 3,

"name": "Rohit Sharma",

"role": "Batsman",

"team\_id": 1}

****

**matches collection with inserted documents**

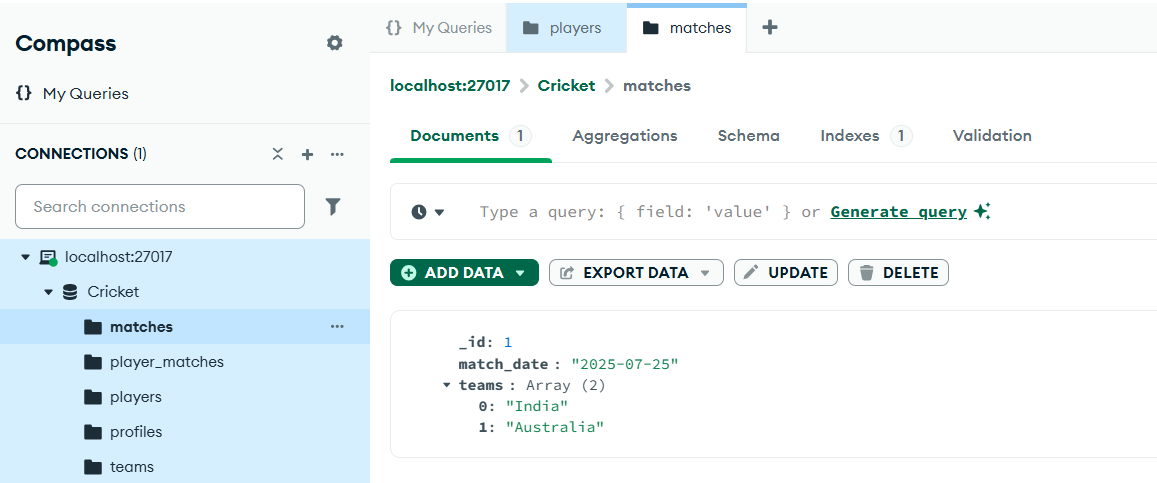
{"\_id": 1,

"match\_date": "2025-07-25",

"teams": [

"India",

"Australia"]}

****

**profiles collection with inserted documents**

**{**

"\_id": 1,

"player\_id": 1,

"age": 35,

"country": "India"

}

{

"\_id": 2,

"player\_id": 2,

"age": 30,

"country": "India"

}

{

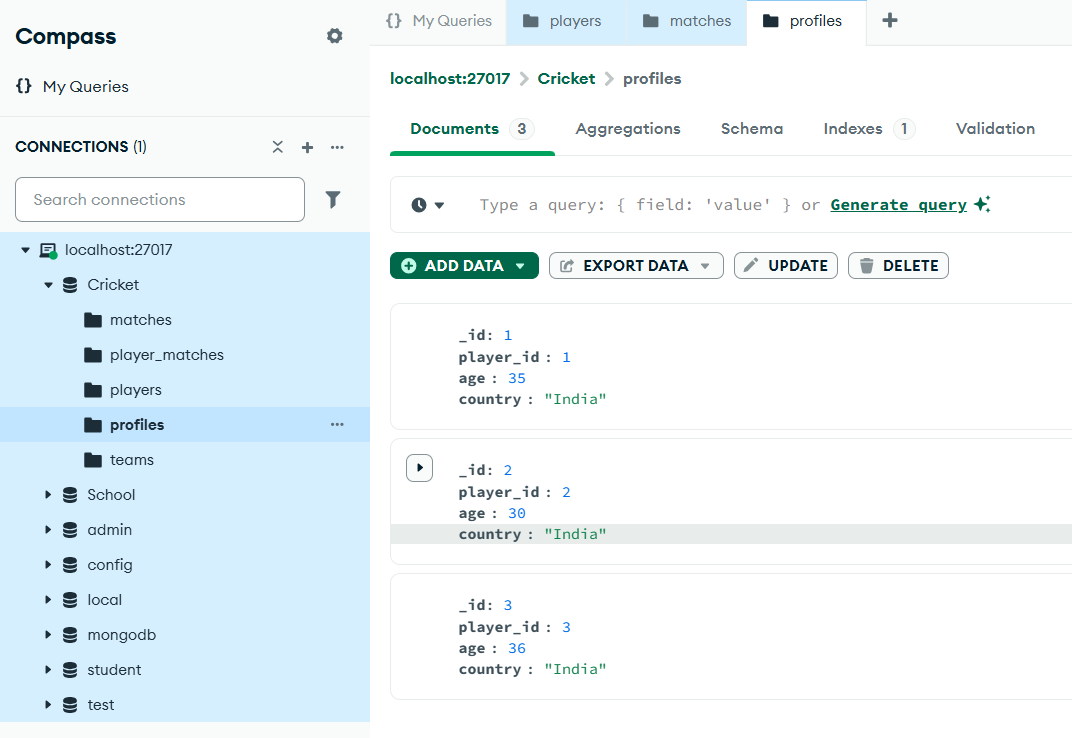
"\_id": 3,

"player\_id": 3,

"age": 36,

"country": "India"

}

****

**teams collection with inserted documents**

{

"\_id": 1,

"team\_name": "India"

}

{

"\_id": 2,

"team\_name": "Australia"

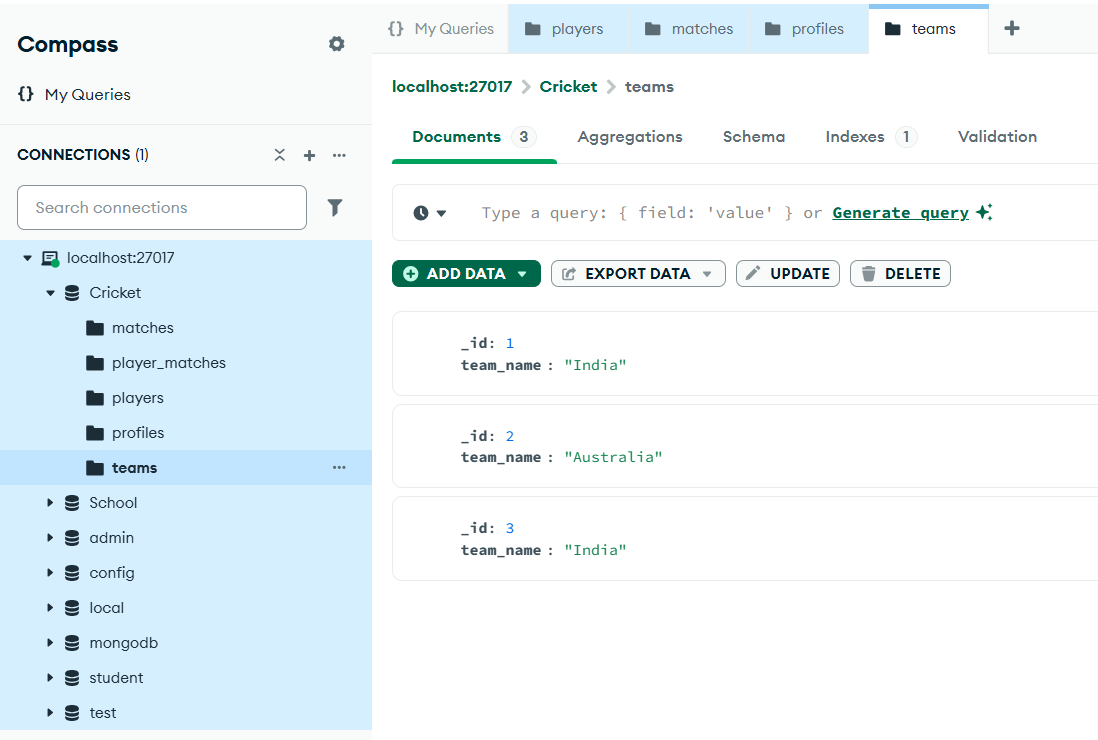
}

{

"\_id": 3,

"team\_name": "India"

}



**players\_matches collection with inserted documents**

{

"\_id": 1,

"match\_id": 1,

"player\_id": 1

}

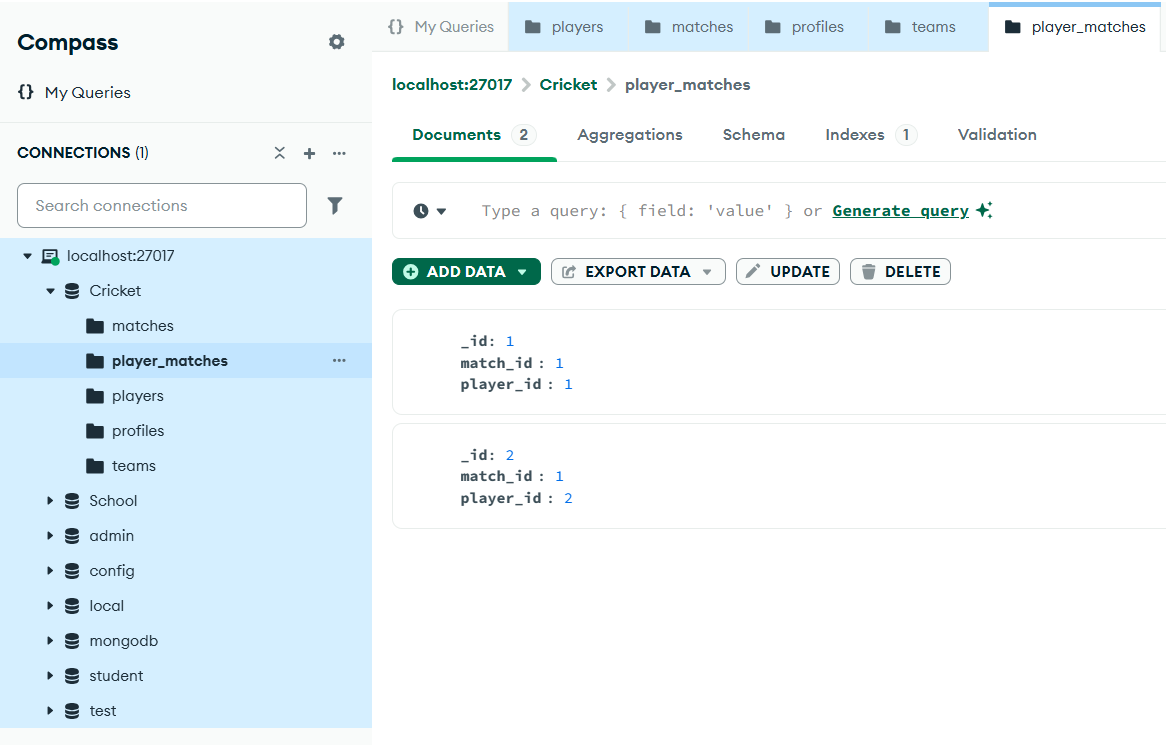
{

"\_id": 2,

"match\_id": 1,

"player\_id": 2

}



**MongoDB Relationships**

1. **One-to-One**

**$lookup**

{

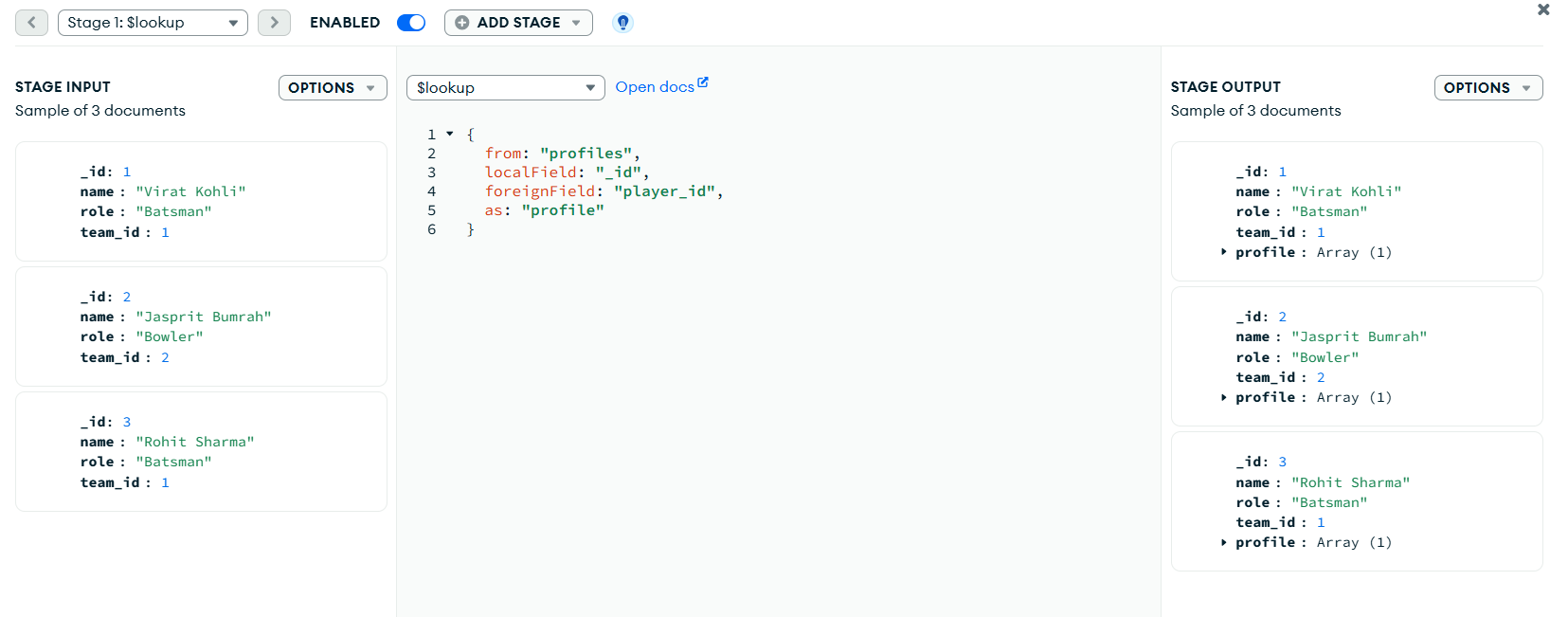
from: "profiles",

localField: "\_id",

foreignField: "player\_id",

as: "profile"

}



1. **One-to-Many**

**$lookup**

{

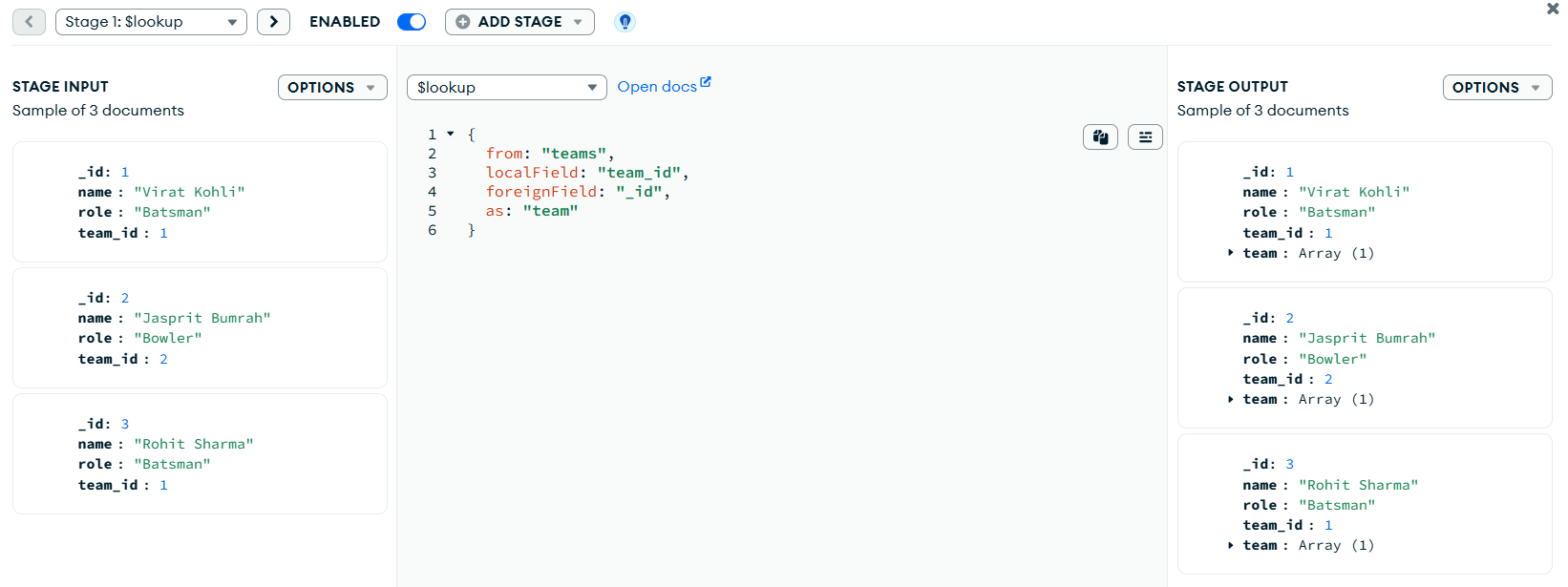
from: "teams",

localField: "team\_id",

foreignField: "\_id",

as: "team"

}

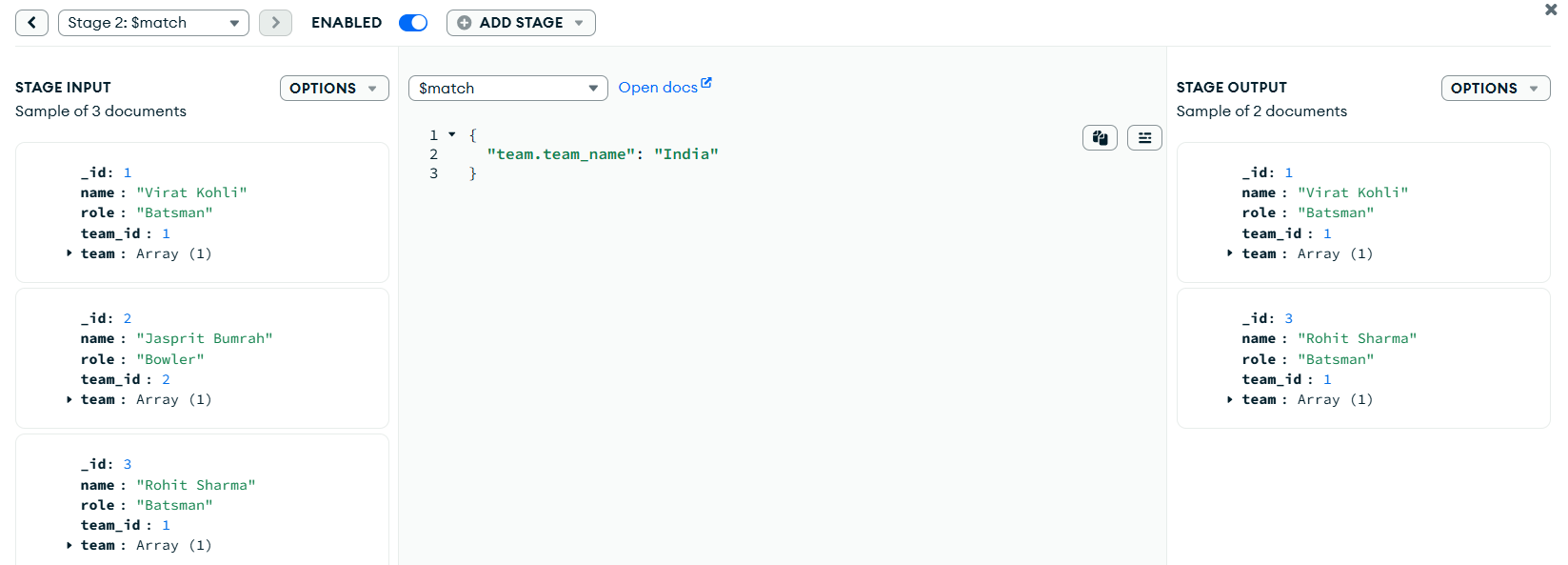


**$match**

{

"team.team\_name": "India"

}



1. **Many-to-One**

**$lookup**

{

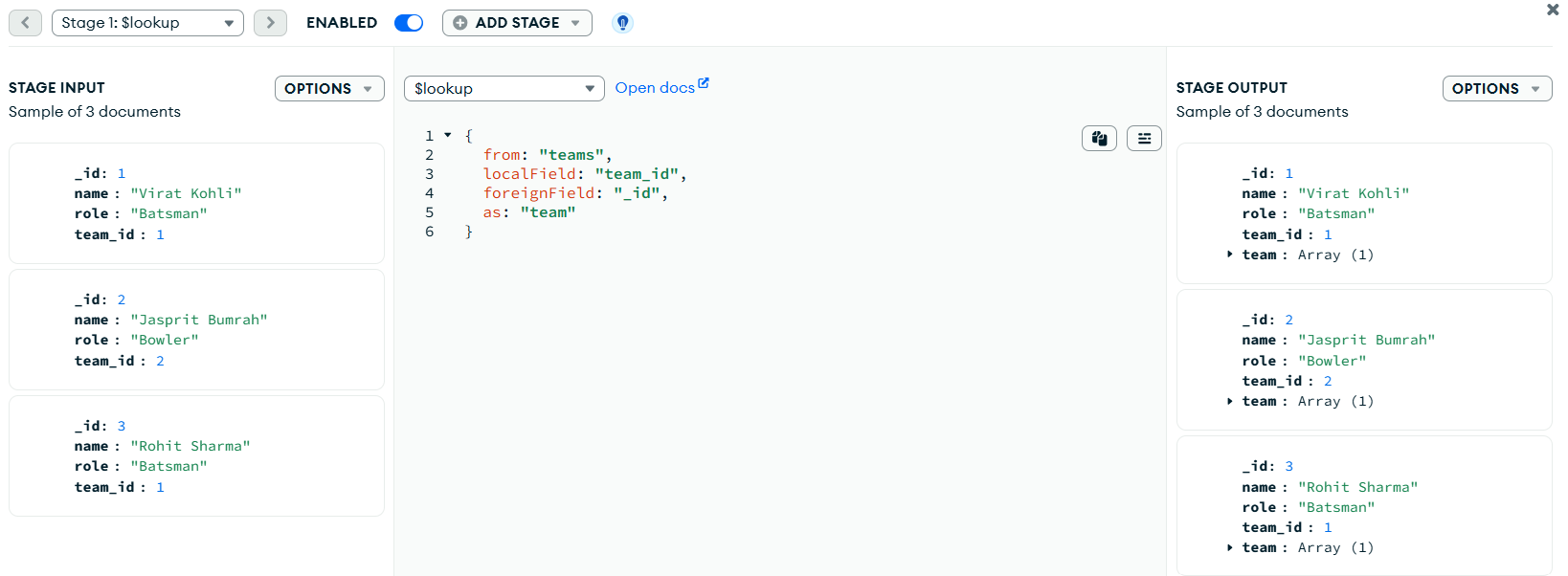
from: "teams",

localField: "team\_id",

foreignField: "\_id",

as: "team"

}



1. **Many-to-Many**

**$lookup**

{

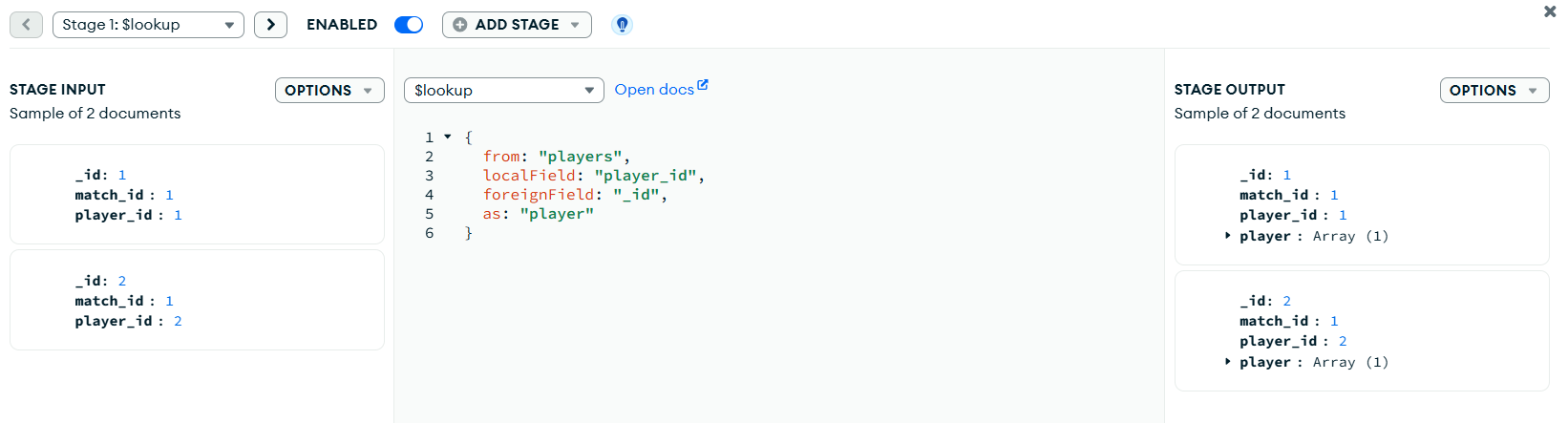
from: "players",

localField: "player\_id",

foreignField: "\_id",

as: "player"

}



**$lookup**

{

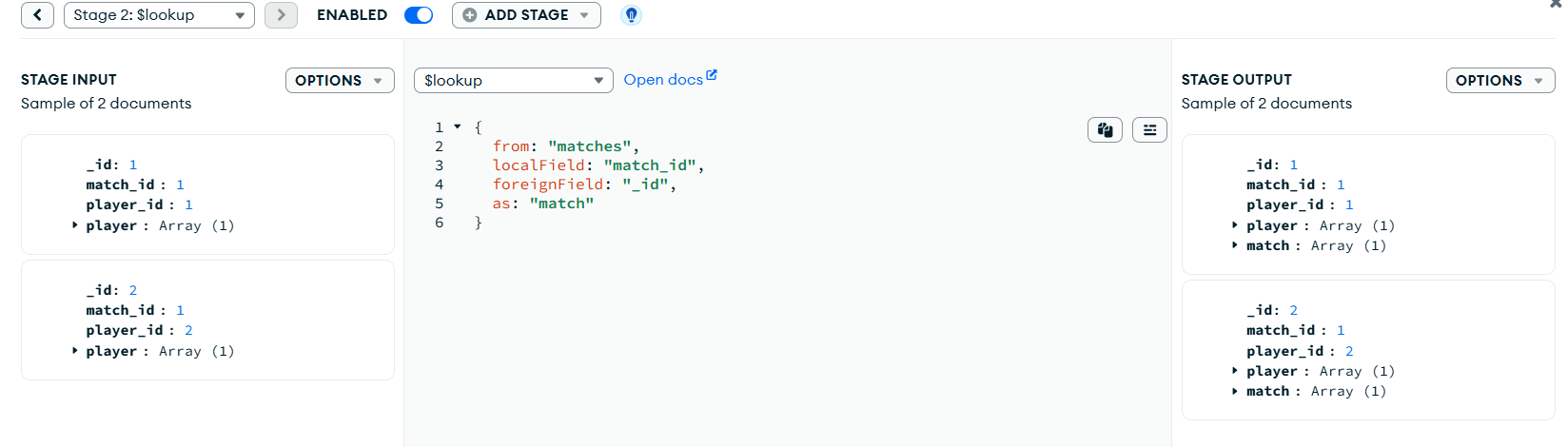
from: "matches",

localField: "match\_id",

foreignField: "\_id",

as: "match"

}



**Submitted by**

Siva Balan T