MongoDB Aggregation Documentation

# Collection: bookings

db.bookings.aggregate([  
 {  
 $group: {  
 \_id: "$ground\_id",  
 total\_bookings: { $sum: 1 }  
 }  
 },  
 {  
 $lookup: {  
 from: "grounds",  
 localField: "\_id",  
 foreignField: "ground\_id",  
 as: "ground\_info"  
 }  
 },  
 { $unwind: "$ground\_info" },  
 {  
 $project: {  
 \_id: 0,  
 ground\_name: "$ground\_info.name",  
 location: "$ground\_info.location",  
 total\_bookings: 1  
 }  
 }  
])

# Collection: grounds

db.grounds.aggregate([  
 {  
 $lookup: {  
 from: "bookings",  
 localField: "ground\_id",  
 foreignField: "ground\_id",  
 as: "booking\_info"  
 }  
 },  
 {  
 $project: {  
 \_id: 0,  
 ground\_id: 1,  
 name: 1,  
 location: 1,  
 capacity: 1,  
 bookings\_count: { $size: "$booking\_info" }  
 }  
 }  
])

# Collection: matches

db.matches.aggregate([  
 {  
 $lookup: {  
 from: "tournaments",  
 localField: "tournament\_id",  
 foreignField: "tournament\_id",  
 as: "tournament"  
 }  
 },  
 { $unwind: "$tournament" },  
 {  
 $lookup: {  
 from: "grounds",  
 localField: "ground\_id",  
 foreignField: "ground\_id",  
 as: "ground"  
 }  
 },  
 { $unwind: "$ground" },  
 {  
 $project: {  
 \_id: 0,  
 match\_id: 1,  
 date: 1,  
 tournament\_name: "$tournament.name",  
 ground\_name: "$ground.name",  
 teams: 1,  
 winner\_team: 1  
 }  
 }  
])

# Collection: players

db.players.aggregate([  
 {  
 $group: {  
 \_id: "$team\_id",  
 total\_players: { $sum: 1 }  
 }  
 }  
])

# Collection: tournaments

db.tournaments.aggregate([  
 {  
 $lookup: {  
 from: "users",  
 localField: "organizer\_id",  
 foreignField: "user\_id",  
 as: "organizer"  
 }  
 },  
 { $unwind: "$organizer" },  
 {  
 $project: {  
 \_id: 0,  
 tournament\_id: 1,  
 name: 1,  
 start\_date: 1,  
 organizer\_name: "$organizer.name"  
 }  
 }  
])

# Collection: users

db.users.aggregate([  
 { $match: { role: "organizer" } },  
 {  
 $lookup: {  
 from: "tournaments",  
 localField: "user\_id",  
 foreignField: "organizer\_id",  
 as: "organized\_tournaments"  
 }  
 },  
 {  
 $project: {  
 \_id: 0,  
 name: 1,  
 email: 1,  
 total\_tournaments: { $size: "$organized\_tournaments" }  
 }  
 }  
])