BOOKINGS: Total bookings per ground

$GROUP

{

\_id: "$ground\_id",

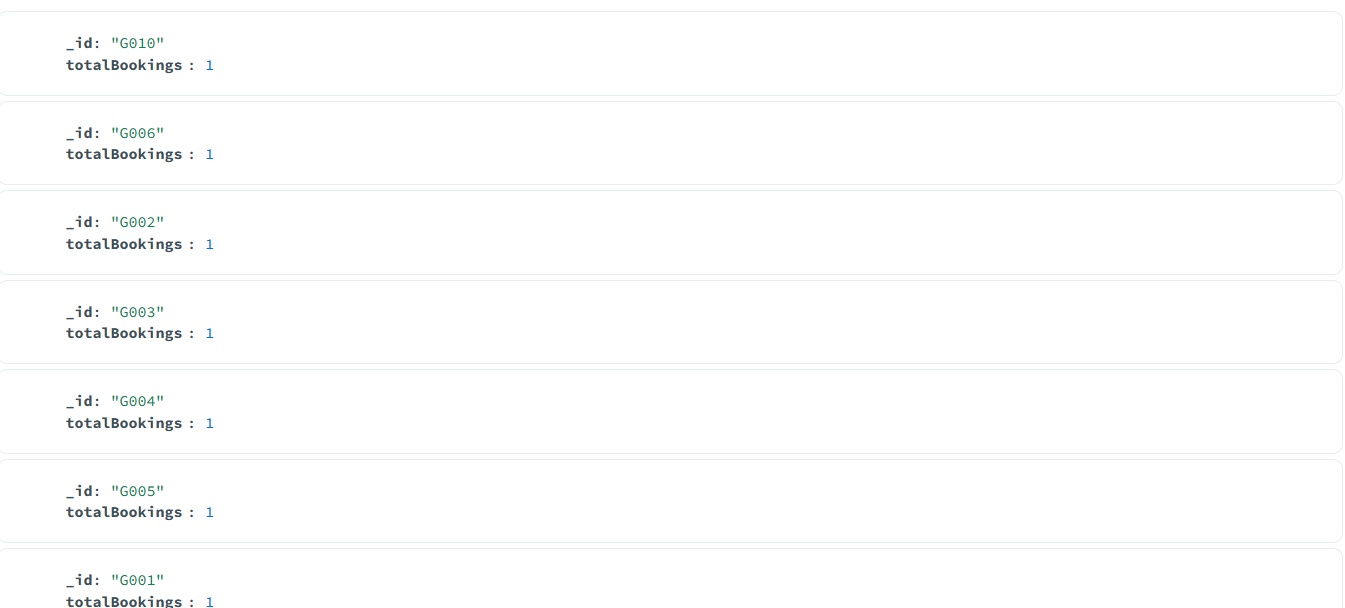
totalBookings: {

$sum: 1

}

}

OUTPUT:



GROUNDS: Capacity utilization (with number of bookings)

$LOOKUP

{

from: "bookings",

localField: "ground\_id",

foreignField: "ground\_id",

as: "booking\_details"

}

$ADDFIELDS

{

number\_of\_bookings: {

$size: "$booking\_details"

},

capacity\_utilization\_percentage: {

$cond: {

if: {

$gt: ["$capacity", 0]

},

then: {

$multiply: [

{

$divide: [

"$number\_of\_bookings",

"$capacity"

]

},

100

]

},

else: 0

}

}

}

$PROJECT

{

\_id: 0,

ground\_id: 1,

name: 1,

location: 1,

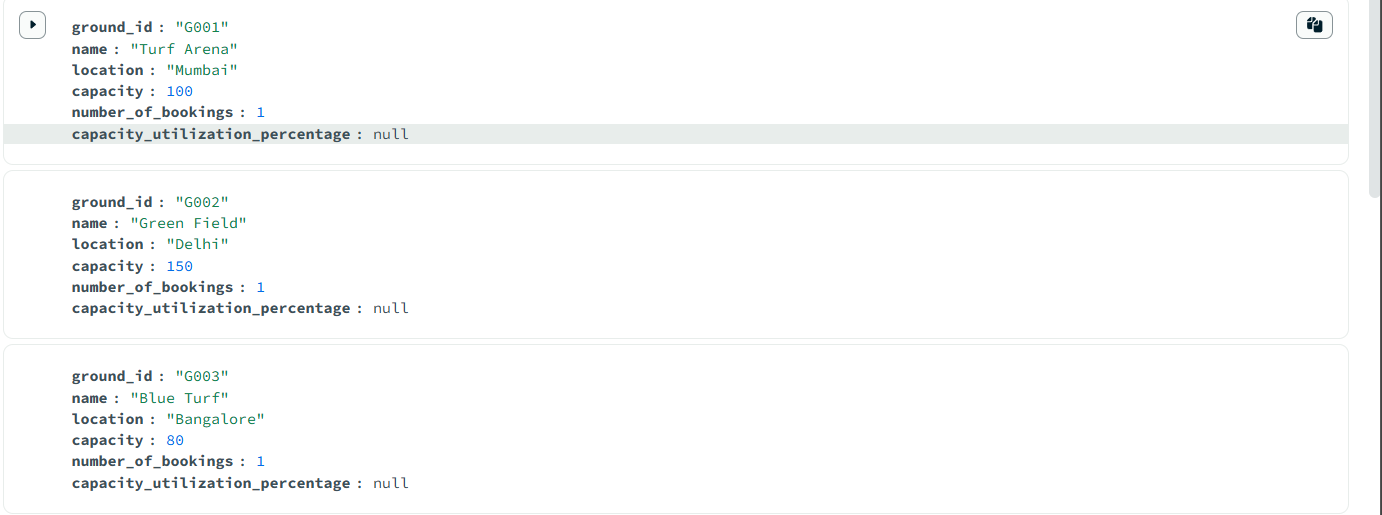
capacity: 1,

number\_of\_bookings: 1,

capacity\_utilization\_percentage: 1

}

OUTPUT:



**Matches** — Matches per tournament with ground name

$LOOKUP

{

from: "grounds",

localField: "ground\_id",

foreignField: "ground\_id",

as: "ground\_info"

}

$UNWIND

"$ground\_info"

$GROUP

{

\_id: "$tournament\_id",

matches: {

$push: {

match\_id: "$match\_id",

date: "$date",

teams: "$teams",

winner\_team: "$winner\_team",

ground\_name: "$ground\_info.ground\_name"

}

}

}

OUTPUT:



**Players** — Player count by team

$GROUP

{

\_id: "$team\_id",

player\_count: {

$sum: 1

}

}

OUTPUT:



**Tournaments** — List tournaments with organizer name

$LOOKUP

{

from: "organizers",

localField: "organizer\_id",

foreignField: "\_id",

as: "organizer\_info"

}

$ADDFIELDS

{

organizer\_name: {

$arrayElemAt: ["$organizer\_info.name", 0]

}

}

$PROJECT

{

teams: 1,

name: 1,

tournament\_id: 1,

start\_date: 1,

organizer\_name: 1

}

OUTPUT:



**Users** — Number of tournaments organized by each user

$MATCH

{

role: "organizer"

}

$GROUP

{

\_id: "$user\_id",

tournamentsOrganized: {

$sum: 1

}

}

OUTPUT:

