```
db.tourist places.insertOne({
 "tourist_place_id": "TP001",
 "name": "Mysore Palace",
 "state": "KARNATAKA",
 "distance from capital": 150,
 "history": "Historical palace in Mysore."
});
db.tourists.insertOne({
 "tourist_id": "T001",
 "name": "John Doe",
 "age": 30,
 "country": "USA",
 "emails": ["john@example.com", "doe@example.com"]
});
db.visits.insertOne({
 "tourist_id": "T001",
 "tourist_place_id": "TP001",
 "visited_date": ISODate("2024-09-01T00:00:00Z")
});
```

## **Simplified Queries:**

a) List the state name which has the maximum number of tourist places.

b) List details of the tourist place where the maximum number of tourists visited.

c) List the details of tourists who visited all tourist places of the state "KARNATAKA".

```
const totalTouristPlacesInState = db.tourist_places.count({ state:
"KARNATAKA" }):
db.visits.aggregate([
  { $lookup: {
    from: "tourist_places",
    localField: "tourist_place_id",
    foreignField: "tourist_place_id",
    as: "place_details"
  }},
  { $match: { "place_details.state": "KARNATAKA" } },
  { $group: { _id: "$tourist_id", visited_places: { $addToSet:
"$tourist_place_id" } } },
  { $match: { "visited_places": { $size: totalTouristPlacesInState }
} },
  { $lookup: {
    from: "tourists",
    localField: "_id",
    foreignField: "tourist_id",
    as: "tourist details"
  }}.
  { $unwind: "$tourist_details" }
1)
```

d) Display the details of the tourists who visited at least one tourist place of the state, but visited all states' tourist places.

e) Display the details of the tourist place visited by tourists from all countries.

```
const allCountries = db.tourists.distinct("country");
db.visits.aggregate([
  { $lookup: {
    from: "tourists",
    localField: "tourist_id",
    foreignField: "tourist_id",
    as: "tourist_details"
  }},
  { $group: { _id: "$tourist_place_id", countries_visited: {
$addToSet: "$tourist_details.country" } } },
  { $match: { countries_visited: { $all: allCountries } } },
  { $lookup: {
   from: "tourist_places",
    localField: "_id",
   foreignField: "tourist_place_id",
   as: "tourist_place_details"
  }},
  { $unwind: "$tourist_place_details" }
])
```