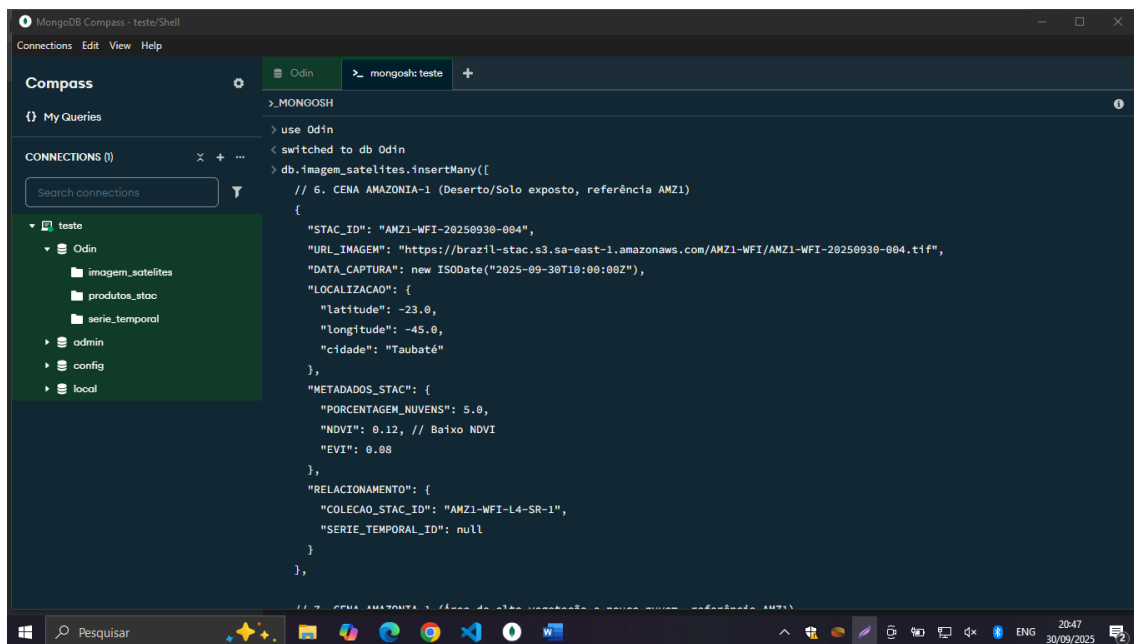


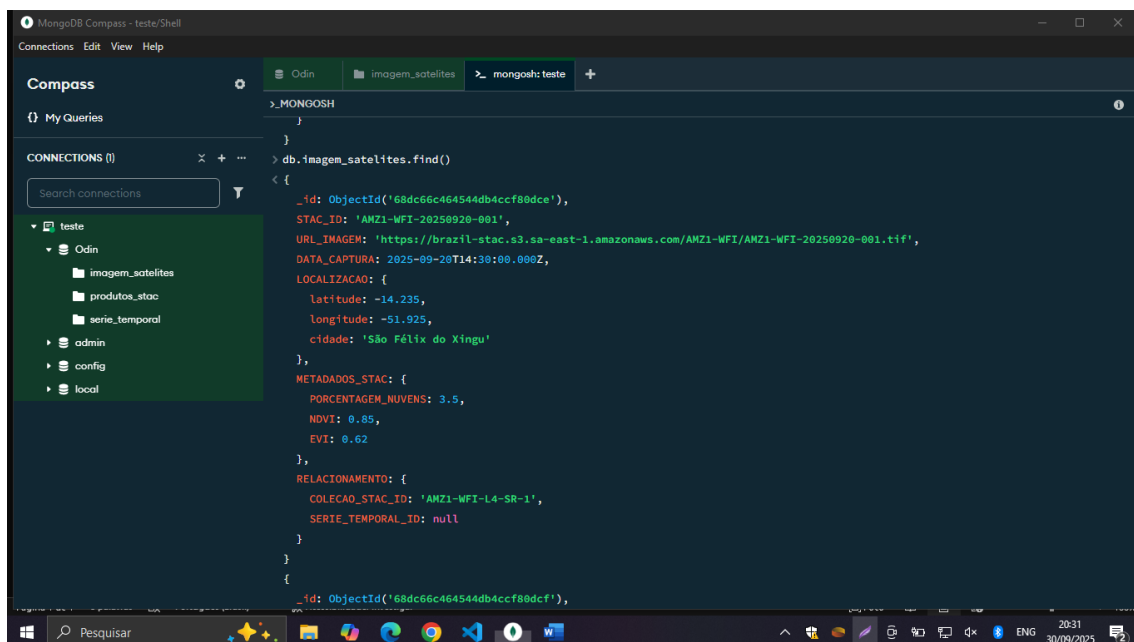
Inserido os dados no mongo:



The screenshot shows the MongoDB Compass interface. On the left, the 'teste' database is expanded, showing the 'imagem_satelites' collection. The main panel displays the MongoDB shell with the following commands and output:

```
> use teste
switched to db teste
> db.imagem_satelites.insertMany([
  // 6. CENA AMAZONIA-1 (Deserto/Solo exposto, referência AMZ1)
  {
    "STAC_ID": "AMZ1-WFI-20250930-004",
    "URL_IMAGEM": "https://brazil-stac.s3.sa-east-1.amazonaws.com/AMZ1-WFI/AMZ1-WFI-20250930-004.tif",
    "DATA_CAPTURA": new ISODate("2025-09-30T10:00:00Z"),
    "LOCALIZACAO": {
      "latitude": -23.0,
      "longitude": -45.0,
      "cidade": "Taubaté"
    },
    "METADADOS_STAC": {
      "PORCENTAGEM_NUVENS": 5.0,
      "NDVI": 0.12, // Baixo NDVI
      "EVI": 0.08
    },
    "RELACIONAMENTO": {
      "COLECAO_STAC_ID": "AMZ1-WFI-L4-SR-1",
      "SERIE_TEMPORAL_ID": null
    }
  },
  // 7. CENA AMAZONIA-2 (Deserto/Solo exposto, referência AMZ1)
  {
    "STAC_ID": "AMZ1-WFI-20250930-005",
    "URL_IMAGEM": "https://brazil-stac.s3.sa-east-1.amazonaws.com/AMZ1-WFI/AMZ1-WFI-20250930-005.tif",
    "DATA_CAPTURA": new ISODate("2025-09-30T10:00:00Z"),
    "LOCALIZACAO": {
      "latitude": -23.0,
      "longitude": -45.0,
      "cidade": "Taubaté"
    },
    "METADADOS_STAC": {
      "PORCENTAGEM_NUVENS": 5.0,
      "NDVI": 0.12, // Baixo NDVI
      "EVI": 0.08
    },
    "RELACIONAMENTO": {
      "COLECAO_STAC_ID": "AMZ1-WFI-L4-SR-1",
      "SERIE_TEMPORAL_ID": null
    }
  }
])
```

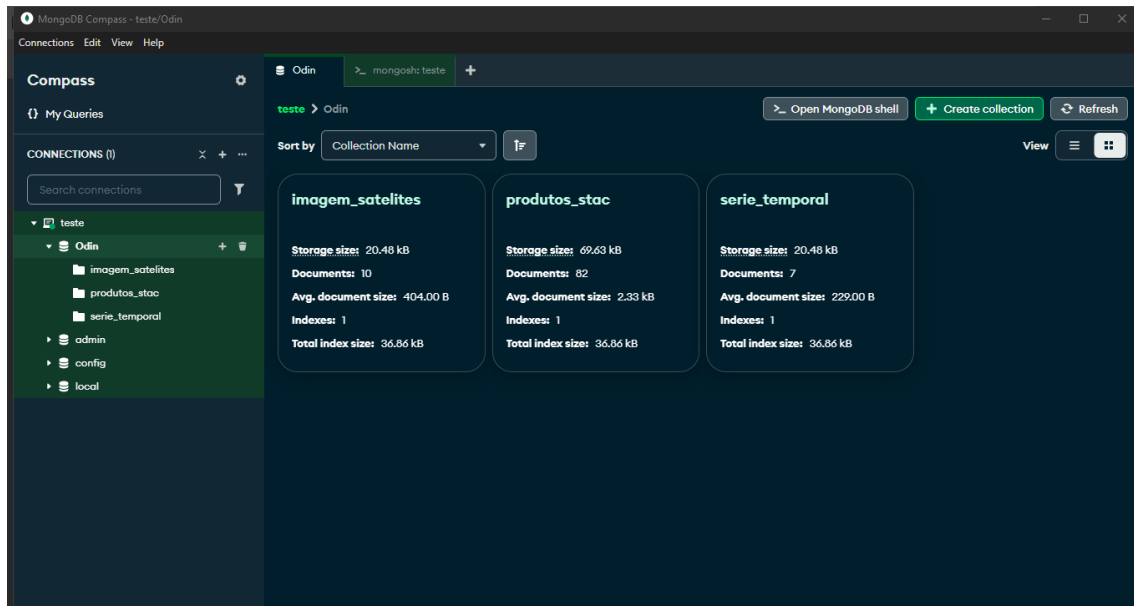
Find mostrando os dados inseridos:



The screenshot shows the MongoDB Compass interface. On the left, the 'teste' database is expanded, showing the 'imagem_satelites' collection. The main panel displays the MongoDB shell with the following commands and output:

```
> use teste
switched to db teste
> db.imagem_satelites.find()
{
  "_id": ObjectId("68dc66c464544db4ccf80dce"),
  "STAC_ID": "AMZ1-WFI-20250920-001",
  "URL_IMAGEM": "https://brazil-stac.s3.sa-east-1.amazonaws.com/AMZ1-WFI/AMZ1-WFI-20250920-001.tif",
  "DATA_CAPTURA": 2025-09-20T14:30:00.000Z,
  "LOCALIZACAO": {
    "latitude": -14.235,
    "longitude": -51.925,
    "cidade": "São Félix do Xingu"
  },
  "METADADOS_STAC": {
    "PORCENTAGEM_NUVENS": 3.5,
    "NDVI": 0.85,
    "EVI": 0.62
  },
  "RELACIONAMENTO": {
    "COLECAO_STAC_ID": "AMZ1-WFI-L4-SR-1",
    "SERIE_TEMPORAL_ID": null
  }
}
{
  "_id": ObjectId("68dc66c464544db4ccf80dcf"),
  "STAC_ID": "AMZ1-WFI-20250920-002",
  "URL_IMAGEM": "https://brazil-stac.s3.sa-east-1.amazonaws.com/AMZ1-WFI/AMZ1-WFI-20250920-002.tif",
  "DATA_CAPTURA": 2025-09-20T14:30:00.000Z,
  "LOCALIZACAO": {
    "latitude": -14.235,
    "longitude": -51.925,
    "cidade": "São Félix do Xingu"
  },
  "METADADOS_STAC": {
    "PORCENTAGEM_NUVENS": 3.5,
    "NDVI": 0.85,
    "EVI": 0.62
  },
  "RELACIONAMENTO": {
    "COLECAO_STAC_ID": "AMZ1-WFI-L4-SR-1",
    "SERIE_TEMPORAL_ID": null
  }
}
```

coleções criadas no Mongo:



consulta com \$and

