

DBMS Practical-Mango
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 Div-A

Program:-

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mongosh mongodb://127.0.0.1:27017/db?directConnection=true&serverSelectionTimeoutMS=2000
Please enter a MongoDB connection string (Default: mongodb://localhost/): db
Current Mongosh Log ID: 652c02e3e5998f95e420
Connecting to: mongodb://127.0.0.1:27017/db?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.0.1
Using MongoDB: 7.0.2
Using Mongosh: 2.0.1
For mongosh info see: https://docs.mongodb.com/mongosh-shell/

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The server generated these startup warnings when booting
2023-10-16T11:45:32.025+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
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db> show dbs
admin      48.00 KiB
amurag     128.00 KiB
config     108.00 KiB
dbs        8.00 KiB
local      72.00 KiB
stud       72.00 KiB
db> use amurag
switched to db amurag
amurag> db.createCollection("emplo");
Uncaught:
SyntaxError: Missing semicolon. (1:29)
1 | db.createCollection("emplo");
  |                               ^
2 |

amurag> db.createCollection("emplo");
{ ok: 1 }
amurag> db.emplo.insert({"id":101,"name":"amurag","deptname":"comp","salary":10000});
DeprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite.
acknowledged: true,
insertedIds: { '0': ObjectId("652ce05902e3e5998f95e421") }
amurag> db.emplo.insert({"id":102,"name":"ishwar","deptname":"comp","salary":1000});
acknowledged: true,
insertedIds: { '0': ObjectId("652ce07002e3e5998f95e422") }
amurag> db.emplo.insert({"id":103,"name":"rohan","deptname":"comp","salary":2000});
acknowledged: true,
insertedIds: { '0': ObjectId("652ce08402e3e5998f95e423") }
amurag> db.emplo.insert({"id":110,"name":"pranav","deptname":"etc","salary":2000});
acknowledged: true,
insertedIds: { '0': ObjectId("652ce0bd02e3e5998f95e424") }
amurag> db.emplo.insert({"id":111,"name":"shraddha","deptname":"etc","salary":200});
acknowledged: true,
insertedIds: { '0': ObjectId("652ce0d402e3e5998f95e425") }
amurag> db.emplo.insert({"id":121,"name":"shraddha","deptname":"it","salary":200});
acknowledged: true,
insertedIds: { '0': ObjectId("652ce0e402e3e5998f95e426") }

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acknowledged: true,
insertedIds: { '0': ObjectId("652ce08402e3e5998f95e423") }
amurag> db.emplo.insert({"id":110,"name":"pranav","deptname":"etc","salary":2000});
acknowledged: true,
insertedIds: { '0': ObjectId("652ce0bd02e3e5998f95e424") }
amurag> db.emplo.insert({"id":111,"name":"shraddha","deptname":"etc","salary":200});
acknowledged: true,
insertedIds: { '0': ObjectId("652ce0d402e3e5998f95e425") }
amurag> db.emplo.insert({"id":121,"name":"shraddha","deptname":"it","salary":200});
acknowledged: true,
insertedIds: { '0': ObjectId("652ce0e402e3e5998f95e426") }
amurag> db.emplo.insert({"id":131,"name":"shraddha","deptname":"it","salary":2000});
acknowledged: true,
insertedIds: { '0': ObjectId("652ce0f002e3e5998f95e427") }
amurag> db.emplo.insert({"id":1021,"name":"amurag","deptname":"it","salary":22000});
acknowledged: true,
insertedIds: { '0': ObjectId("652ce10f02e3e5998f95e428") }
amurag> db.emplo.aggregate([{$group:{$id:$_id,$deptname,$total_sum:{$sum: '$salary'}}}]);
{
  _id: 'etc', total_sum: 2200 },
  _id: 'it', total_sum: 20000 },
  _id: 'comp', total_sum: 13000 }
amurag> db.emplo.aggregate([{$group:{$id:$_id,$deptname,$total_sum:{$min: '$salary'}}}]);
{
  _id: 'it', total_sum: 200 },
  _id: 'comp', total_sum: 1000 },
  _id: 'etc', total_sum: 200 }
amurag> db.emplo.aggregate([{$group:{$id:$_id,$deptname,$total_sum:{$avg: '$salary'}}}]);
{
  _id: 'it', total_sum: 866.6666666666666 },
  _id: 'comp', total_sum: 433.3333333333333 },
  _id: 'etc', total_sum: 1100 }
amurag> db.emplo.aggregate([{$group:{$id:$_id,$deptname,$total_sum:{$first: '$salary'}}}]);
{
  _id: 'comp', total_sum: 10000 },
  _id: 'etc', total_sum: 2000 },
  _id: 'it', total_sum: 200 }
amurag> db.emplo.aggregate([{$group:{$id:$_id,$deptname,$total_sum:{$last: '$salary'}}}]);
{
  _id: 'etc', total_sum: 200 },
  _id: 'it', total_sum: 22000 },
  _id: 'comp', total_sum: 2000 }
amurag>

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