

## Assignments

<p>A. Learn the concept of a NoSQL database by the end of this week.</p> <p><a href="#">NoSQL Database Topics</a></p> <p>B. Finish the following assignments.</p> <p><a href="#">NoSQL Database: Assignments</a></p> <p>C. Full Domain review</p>
<p>1. Learn the concept of a NoSQL database by the end of this week.</p> <p><a href="#">NoSQL Database Topics</a></p> <p>2. Finish the following assignments.</p> <p><a href="#">NoSQL Database: Assignments</a></p> <p>3. Full Domain review</p>
<p>A. Learn the concept of a NoSQL database by the end of this week.</p> <p><a href="#">NoSQL Database Topics</a></p> <p>B. Finish the following assignments.</p> <p><a href="#">NoSQL Database: Assignments</a></p> <p>C. Full Domain review</p>
<p><i>Link to the folder containing screenshot of solutions to the above queries</i></p>
<p>3. Analyse the following collection &amp; answer the queries.</p> <p><b>EmployeeInfo Collection :</b></p> <pre>[   {     EmpId : 1,     EmpFname : Karan,     EmpLname : mehta,     Department : HR,     Salary : 300000   },   {     EmpId : 2,     EmpFname : Rohit,     EmpLname : Sharma,</pre>

```

        Department : Admin,
        Salary : 75000
    },
    {
        EmpId : 3,
        EmpFname : Ankush,
        EmpLname : Rajput,
        Department : Account,
        Salary : 60000
    },
    {
        EmpId : 4,
        EmpFname : Priyadershini,
        EmpLname : Sharma,
        Department : HR,
        Salary : 500000
    },
    {
        EmpId : 5,
        EmpFname : Sanket,
        EmpLname : Gupta,
        Department : Developer,
        Salary : 100000
    },
    {
        EmpId : 6,
        EmpFname : Shruthi,
        EmpLname : Varyar,
        Department : Admin,
        Salary : 80000
    },
    {
        EmpId : 2,
        EmpFname : Rohit,
        EmpLname : Sharma,
        Department : Admin,
        Salary : 75000
    }
]

```

]

- A. Write a query to find the third highest salary from the EmployeeInfo collection
- B. Write a query to find the duplicate row in a collection?
- C. Write a query to calculate the even and odd records from a collection?

- D. Write a query to display the first and last record from the EmployeeInfo table collection?
- E. How do you copy all documents of a collection using query ?
- F. Write a query to retrieve the list of employees working in the same department ?
- G. Write a query to retrieve the last 3 records from the EmployeeInfo collection ?
- H. Write a query to fetch details of an employee whose EmpLname ends with an alphabet 'A' and contains five alphabets ?

*Link to the folder containing screenshot of solutions to the above queries*

4. Analyse the following collection & answer the queries.

**Collection name: marketing**

```
{
  "_id" : ObjectId("6014dc988c628fa57a508088"),
  "Age" : "Middle",
  "Gender" : "Male",
  "OwnHome" : "Rent",
  "Married" : "Single",
  "Location" : "Close",
  "Salary" : 63600,
  "Children" : 0,
  "History" : "High",
  "Catalogs" : 6,
  "AmountSpent" : 1318
}
```

- A. Add more document inside the marketing collection.
- B. Write a query to find the 3rd document from the collection.
- C. Write a query to find out the average spent amount of customers who received more than 10 catalogs
- D. Write a query to calculate the average salary and the total spent amount for customers who have at least 1 child

*Link to the folder containing screenshot of solutions to the above queries*

5. Analyse the following collection & answer the queries.

**Collection: movies**

```
[
  {"_id": 0, title: "Movie A", year: 2010, director: "D1", actors: ["A1", "A2"]}
  , {"_id": 1, title: "Movie B", year: 2010, director: "D1", actors: ["A1", "A5", "A6"]}
  , {"_id": 2, title: "Movie C", year: 2010, director: "D2", actors: ["A4"]}
]
```

```
,{"_id": 3,title: "Movie D", year: 2012, director: "D3", actors: ["A7"]}
,{"_id": 4,title: "Movie E", year: 2015, director: "D3", actors: ["A7"]}
]
```

- A. Write a query to campaign documents and return all movie details when the same directors

*Link to the folder containing screenshot of solutions to the above queries*

6. Analyse the following collection & answer the queries.

**Collection : orders**

```
[{"_id" : 1, "item" : "almonds", "price" : 12, "quantity" : 2 },
 {"_id" : 2, "item" : "pecans", "price" : 20, "quantity" : 1 },

 {"_id" : 3 }]
```

**Collection : inventory**

```
[{"_id" : 2, "sku" : "bread", "description": "product 2", "instock" : 80 },
 {"_id" : 3, "sku" : "cashews", "description": "product 3", "instock" : 60 },
 {"_id" : 4, "sku" : "pecans", "description": "product 4", "instock" : 70 },
 {"_id" : 5, "sku": null, "description": "Incomplete" },
 {"_id" : 6 }]
```

- A. Write a query to show the item, price, quantity, instock from each product from the above collection.

*Link to the folder containing screenshot of solutions to the above queries*

7. Analyse the following collection & answer the queries.

**Collection: classes**

```
[
{"_id: 1, title: "Reading is ...", enrollmentlist: [ "giraffe2", "pandabear", "artie" ], days: ["M",
"W", "F"] },
 {"_id: 2, title: "But Writing ...", enrollmentlist: [ "giraffe1", "artie" ], days: ["T", "F"] }
]
```

**Collection: members**

```
[
```

```
{_id: 1, name: "artie", joined: new Date("2016-05-01"), status: "A" },
{_id: 2, name: "giraffe", joined: new Date("2017-05-01"), status: "D" },
{_id: 3, name: "giraffe1", joined: new Date("2017-10-01"), status: "A" },
{_id: 4, name: "panda", joined: new Date("2018-10-11"), status: "A" },
{_id: 5, name: "pandabear", joined: new Date("2018-12-01"), status: "A" },
{_id: 6, name: "giraffe2", joined: new Date("2018-12-01"), status: "D" }
```

- A. Write a query to show the document when matching all data from the enrollment list in the classes collection to the name of the member collection?

*Link to the folder containing screenshot of solutions to the above queries*

8. Answer the following questions using queries.

- A. Suppose there is a dearth in willow production this year and the bat manufacturer can only supply bats for either right-handed or left-handed batsmen but not both. Write a query for the bat manufacturer that groups the players by batting hand so that you can inform him which kind of bat he should put into production to gain maximum revenue?
- B. There is talk of adding cricket to the Olympic sports. But before a conclusive decision can be made, the Olympic board needs to find out if it's even feasible to do so. Write a query for the Olympic board informing them of the number of players in each country.
- C. The Olympic board is well aware of the willow crisis. Therefore, to be on the safe side, they have one more request for you. They would like to know the number of players of each country that bat with a given hand

*Link to the folder containing screenshot of solutions to the above queries*