Chit 16 –

use department

db.createCollection("teachers")

db.teachers.insert([

... {

... "name": "Rahul",

... "department": "Computer",

... "experience": 4,

... "salary": 40000

... },

... {

... "name": "Sonali",

... "department": "Computer",

... "experience": 10,

... "salary": 90000

... },

... {

... "name": "Vijay",

... "department": "Entc",

... "experience": 5,

... "salary": 50000

... },

... {

... "name": "Archana",

... "department": "Entc",

... "experience": 12,

... "salary": 100000

... },

... {

... "name": "Tushar",

... "department": "It",

... "experience": 8,

... "salary": 95000

... },

... {

... "name": "Manisha",

... "department": "It",

... "experience": 10,

... "salary": 80000

... },

... {

... "name": "Priya",

... "department": "Civil",

... "experience": 7,

... "salary": 75000

... },

... {

... "name": "Sachin",

... "department": "Mechanical",

... "experience": 5,

... "salary": 50000

... }

... ])

QUERIES

• Display the department wise average salary.

db.teachers.aggregate(

... [

... {

... $group: {

... \_id: "$department",

... avg\_salary: {$avg: "$salary"}

... }

... }

... ]).pretty()

• Display the no. Of employees working in each department.

db.teachers.aggregate(

... [

... {

... $group: {

... \_id: "$department",

... no\_of\_employees: {$sum: 1}

... }

... }

... ]).pretty()

• Display the department wise minimum salary.

db.teachers.aggregate(

... [

... {

... $group: {

... \_id: "$department",

... min\_salary: {$min: "$salary"}

... }

... }

... ]).pretty()

• Apply index and drop index

db.teachers.createIndex({name: 1})

db.teachers.dropIndex({name: 1})