- 3. The Professor now checks with the registration team that there are only ECE, CSE, BP, CIVIL, ME students are allowed to enroll in Web Engineering Course. The Professor again asks Anamika to delete all documents except the above mentioned branch students in the collection "StuData".
- 4. Prof Gabriel wants to register the students of Fall-2019 batch into the Web Engineering Courses for monitoring the student activities. But he likes to store the documents only in alphabetical order. Prof Gabriel asks Anamika to sort the collection "StuData" so that he can get the requisite output. Using appropriate methods sort the documents in the collection "StuData" both in ascending and descending order.
- 5. Prof Mathew has the students' previous marks through which he wants to arrange some special training for the students. But the data is in two different collections. The first collection is StuData which contains the StudentID, Name, Dept, Address fields whereas the second collection StuMarks contains StudentID and marks in various subjects. Prof Mathew asks his favourite student Mr. Honulul to display all the details of the students from both the collections.

StudentID	Name	Dept	Address	
1594	Zudumba	CSE	VZA	
1607	Hidamba CSE		ĞUN	
1642	Jyoto	CSE	VZA	
1542	Chapa	CSE	GUN	
1668	Pronto	BP	GUN	
1587	Geets	ECE	TEN	
1654	Anjani	BP	VZA	
1540	Miniyo	CIVIL	GUN	
1610	Bharg	ME	TEN	
1595	Varen	ME	GUN	
1677	Soven	ME	VZA	
1603	Varshita	ECE VZA		
1592	Chuck	ВТ	BT VZA	
1500	Rischard	PE VZA		

Sub-1	Sub-2	Sub-3	Sub-4
	100	91	83
95	89	98	97
	83	87	94
	86	100	80
	91	98	89
		84	100
	100	89	83
83	86	83	81
97	87	87	88
99	95	84	84
98	92	80	94
91	90	99	99
83	90	92	94
81	99	100	94
	87 95 97 86 95 90 89 83 97 99 98 91 83	87 100 95 89 97 83 86 86 95 91 90 95 89 100 83 86 97 87 99 95 98 92 91 90 83 90	87 100 91 95 89 98 97 83 87 86 86 100 95 91 98 90 95 84 89 100 89 83 86 83 97 87 87 99 95 84 98 92 80 91 90 99 83 90 92

Quick Fix:

1) Non Mongo Client = require ('mongodb'). Mongo client;
5) Non unl = "mongodb: // local host: 27017/";
Mongo Client. connect (unl, function (err, db) {
 Non dbname = db. db("Kl");

Vay dc = dbmame. Collection ("studata");

Const mudata = [{Studentid:1894, name: "ZUDUMBA", dept:"65% ADDRESS: "VZA"], { StudentilD: 1607, name: "Hidamba", dept: "ESE", address: "GIUNING } ¿StudentID: 1642, name: "Jyoto", dept: "CSE", address: "VZA"3, ¿ Student ID: 1542, name: "Chapa", dept: "CSE", address: "Gibni ¿ Student SID: 1668, mame: "pronto", dept: "Bp", address: "GIUN", ¿ Student &D: 1587, name: "Greets", dept: "ECF", address: "TEN" ¿ Student ID: 1654, name: "Aniani", dept: "Bp", address: "VZA" ¿ Studenti D: 1540, name: "Miniyo", dept: "CIVIL", address: "Guny ¿ StudentID: 1610, name: "Bhang", dept: "ME", address: "TEN", ¿ Studentio: 1595, name: "Namen", dept: "ME", address: "GIUNY { StudentID: 1677, name: "Soven", dept: "ME", address: "NZA"}, ¿ StudentiD: 1603, name: "Voishita", dept: "FCE", address: "Va) ¿ Studentio: 1592, name: "chuck", dept: "BT", address: "VZA", ¿ Studentio: 1500, name: "Rischard", dept: "PE", address: "VA" de insort Many (mudata, function (err, rescut) & if (err) throw err; Consore log(rescut); db-close(); 2)a) use ki Swite hed, to db kl db.StuData:findone(); "-id": Objected"6162cb1Fe49f31d856c581c3"), " StudentIO":1594, "name": "ZU DUMBA", "-ADDRESS "; " 42 A"

```
20TS2101S - MSWDskill workbook EXECUTE
b) show dbs
  db. Studata, find (). pretty();
     "_id": Object Id("6162cb) fe 49f31d856c581c3"),
      "StudenED": 1594.
      "hame": "ZUDUMDA"
      "dept": "CSE"
     " ADDRESS: "UZA".
     "Lid": Object20("616206) fe49f31d856058104"),
     "Student3D": 1607,
      " name": "Hidamba",
      "dept": "CSE",
      "address"; "GIUN"
   "-id": ObjectID("616acbife49 F31d856c58 15"),
   "StudentID": 1642,
    "name": "Tyoto",
    "dept": "CSE",
    "address"; "Viza",
    "-id": Object20 ("61 Gac bi fe 49 + 3 id 8 56 (5 8 16"),
     "Student 30": 1542,
    "name": "Chapa",
"dept": "CSE",
     "address": "GON"
c) db. stubata. find { 3, { studentsip: 1, dept:1, -id:0}),
  {"Studentip": 1594, "dept ": "CSE"}
  {"Studentip": 1607, "dept": "CSE"}
```

3" Studentio": 1642, "dept": "CSE"}

?" StudentID": 1542, "dept": "CSE"3

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{"StudentID": 1668, "dept": "CSE"} {"Student]D": 1587, "dept": "F(E"} { "StudentID": 1654, "dept": "Bp"} {" StudentID": 1540, " dept": "ME"} d) db. studata.find { }, {dept:0, -id:0}); ? "Student&D": 1594, "name"; "ZUDUMBA", "ADDRESS": "VZA"} ¿"Studentad": 1607, "name": "Hidamba", "address": "Gon"} E"Studentio": 1642, "name": "Tyoto", "address": "GION"} ¿" Student20": 1542, "name": "Chapa", "address": "Gow"} ?" StudentiD": 1668, "name": "pronto", "address": "GIUN"} ¿"StudentîD": 1587, "name": "Geets", "address": "VZA"} 3) db. Studata. remove (¿dept: ¿\$nin:["ECE", "ESE", "Bp", "CNI "ME"] } }); writeResuit ({ "nRemoved": 23) db. Studata. find (). Pretty (); "-id": Object 2d ("61611089dccod14cd7466041"), " StudentID":1594, "name"! "ZUDUMBA", " dept": "CSE", "ADDRESS": "YZA" 2 "_id": Object2d("61611089dccod14cd7a66042"), " Studentad": 1607, " name"! " Hidamba", "dept": "CSE", "address"! "Givn",

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"id": object 2d ("61611 c89 dec od 14 cd 7 a 66043"), " Student 20"; 1642, " name": Tyoto", "dept": "CSE", "address": "VZA" 4) Ascending order db. Stucala-find(). Sort ({ name: 13). ¿"_id": ObjectId ("GIGIIC89dccod14cd7a66647"), "StudentiD" : 1654, "name"; "Anjani", "dept"; "Bp", "address": "V ZA"3 {"_id": Object_2d("GIGIIC89dccod14cd+a66049")," studentio" :1610, "name": "Bharg", "dept": "ME", "address": "TEN"] 8"_id": Object 2d ("61611089 d cc od 14 cd 7 a 66044"), "Student 20" :1542, "name": "Chapa", "dept ": "CSE", "address": "GION"} 3) Descending order. db. Studata. find (). sont (Ename: -13); 3"-id': Object@d("61611089dccod14cd7a60041")," Studentio" : 1594, "name"; "ZUDUMDA", "dept": "CSE", "ADDRESS": "VZA"} 3"-id": Object Id ("61611089 decod 140 d 7 a 6604 ("), "student 20"

: 1603

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Exercises:

Q1. Does MongoDB assist primary-key, foreign-key relationship?

Mongoob doesn't Support primary key-forcing key relationship. It has I'd field for each of the every document. Mongoob doesn't whole with the Concept of foreign keys:

Q2. What are Indexes in MongoDB? Indexes are the special data structures that store a Small portion of the collections data (Structures) it is used to Scientify the right file whenever sequired. Q3. How many indexes does MongoDB create by way of default for a new collection?

-A collection in Mongoob can only have up to 64 Indexes.

Q4. How Does MongoDB database have tables for storing records?

MongoDB data stones the Olata in the form of collection instead of tables fields in the documents are similar to columns in the tables.

Q5. How does MongoDB offer concurrency?

MongoDB uses multi granularity locking that allows Operation to lock at the global databox of Collection level and allows for individual engine to implement the concurrency.