

School of Computer Science Engineering and Technology

Course- BTech

Type- Core

Course Code- CSET201

Course Name- Information Management System

Year- 2022

Semester- Odd

Date- 22/08/2022

Batch- 2021-2025

LAB 3

CO-Mapping

Exp No.	Name	CO1	CO2	CO3
03	Aggregate functions	✓	---	✓

Objectives

1. Students will be able to learn Aggregate function.
2. Student will be able to learn Group by functions.
3. Student will be able to learn DML and DDL commands.

Courses

Course_code	Course_title	Credits	Semester	Instructor_id
CS301	DBMS	4	3	101
CS302	OS	3	3	102
CS101	Physics	3	1	103
CS303	java	3	3	104
CS505	Discrete Math	4	5	105
CS701	Cloud Computing	3	7	106
EC303	DLD	2	5	107
MBA501	Economics	3	5	108

Datatypes Used:

```
Course_code varchar();  
Course_title varchar();  
Credits int;  
Semester int;  
Instructor_id int;
```

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Instructors

Instructor_id	Instructor_name	Department
101	Ashish	CSE
102	Shivam	CSE
103	Ravi	ME
104	Sujit	CSE
105	Alka	CSE
106	Suman	CSE
107	Mukund	EC
108	Rohit	MBA

Datatypes Used :

Instructor_id **int**;
Instructor_name **varchar()**;
Department **varchar()**;

Students

Registration_id	S_Name	Semester	Course_code	Age	Instructor_id
SCS012	Arjun	3	CS301	17	101
SCS013	Anamika	3	CS301	19	101
SCS012	Divya	3	CS302	20	102
SCS014	Diya	1	CS101	19	103
SCS015	Abhishek	3	CS303	17	104
SCS090	Shiva	3	CS303	16	104
SCS071	Rahul	5	CS505	21	105
SCS043	Rupam	3	EC303	22	107
SCS017	Hina	3	EC303	23	107
SCS022	Alam	5	MBA501	21	108
SCS056	Satya	7	CS701	23	106

Datatype Used:

Registration_id **Varchar()**;
S_name **Varchar()**;
Semester **int**;
Course_code **Varchar()**;
Age **int**;
Instructor_id **int**;

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Questions:

1. Display the number of instructors from each department.
2. Display the number of instructors from each department, sorted low to high.
3. Display the number of instructors from each department, sorted low to high and include only those departments who is having more than two instructors.
4. Display all the details of first 4 youngest student from students table.
5. Display all the students whose name begins with D.
6. Write a query that selects the first student in alphabetical order whose name ends with m.
7. Select the average age of students in each semester.
8. Display the name of the student in Semester 3, with maximum age.
9. Display all the students in Semester 3 who are studying OS.
10. Combine Instructor_name and Department columns as instructor_detail column.
11. Write a SQL statement to increase the credits of subjects under the semester 1, 3 and 5. The credits will be increased by 2,1,1 for 1,3,5 semester respectively and the rest of the departments will remain same.