School of Computer Science Engineering and Technology

Course- BTech Type- Core

Course Code- CSET201 Course Name- Information Management

System

Year- 2022 Semester- Odd

Date- 05/09/2022 Batch- 2021-2025

LAB 5

CO-Mapping

Exp No.	Name	CO1	CO2	CO3
05	Sub-queries	✓		✓

Objectives

1. Students will be able to learn sub queries.

2. Student will be able to learn IN, ANY, Exist, Not exist operator.

3. Student will be able to learn aggregate functions.

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	
109	Divyanshu	MBA	
110	Abhijit	LAW	

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
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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Experience

Instructor_id	Experience
101	0
102	1
103	3
104	5
105	1
106	0
107	0
108	6
109	5
110	5

Datatype Used:

Instructor_id int; Experience int;

Questions: (Solve the questions using Sub Queries)

- 1. Find the details of all the instructors with no experience.
- 2. Find out the name of students who are taught by the instructors having experience more than 3 years.
- 3. Display the name of instructor with maximum experience.
- 4. Find the name of students who are either studying Java, DBMS or OS.
- 5. How many instructors are teaching no students?
- 6. Update the age of all the students by 1 are in semester 3.
- 7. Find the name of all the instructor whose experience is greater than the experience of instructor_id 105.
- 8. Find the average age of students in each semester. Round off the average values.