For more questions: https://diuqbank.com | Uploader: Rafsan Bin Habib

Lab Final Examination: Fall-2024

Course Code: CIS 222L (Batch: 17_B)

Course Title: Database Management System Lab

Date: 12/12/2024

Time: 1 Hour

Total Marks: 40

Consider a University Enrollment System.

		A TONES TO SE	20 0 3000 j			
Student ID	Student Name	Course ID	Course Name	Teacher	Department	Department Head
231-16- 001	Fahim	CIS 222	DBMS	Mr. Mehedi	CIS	Md. Sarwar Hossain Mollah
231-16- 001	Fahim	CIS122	DS	Mr. Himel	CIS	Md. Sarwar Hossain Mollah
231-16- 002	Maruf	CIS 222	DBMS	Mr. Mehedi	CIS	Md. Sarwar Hossain Mollah
231-16-	Maruf	CIS 131	CAO	Mr. Israfil	CSE	Dr. Sheak Rashed Haider Noori
231-16-	Parvez	CIS-313	AI	Mr. Mizan	CSE	Dr. Sheak Rashed Haider Noori
231-16- 004	Naim	IoT325	EDC	Mr. Nafees	SWE	Dr. Imran Mahmud

Final Structure After Normalization (Up to 3NF)

Table: Enrollment

Student ID	Student Name	Course ID
231-16-001	Fahim	CIS 222
231-16-001	Fahim	CIS122
231-16-002	Maruf	CIS 222
231-16-002	Maruf	CIS 131
231-16-003	Parvez	CIS 313
231-16-004	Naim	IoT325

Table: Departments

Department	Department Head	
CIS	Md. Sarwar Hossain Mollah	
CSE	Dr. Sheak Rashed Haider Noori	
SWE	Dr. Imran Mahmud	

Table: Courses

Course ID	Course Name	Teacher	Department
CIS 222	DBMS	Mr. Mehedi	CIS
CIS122	DS	Mr. Himel	CIS
CIS 131	CAO	Mr. Israfil	CSE
CIS 313	AI	Mr. Mizan	CSE
IoT325	EDC	Mr. Nafees	SWE

Task 1 – Basic Structure (16 Marks)

Q1. Create the table and insert data as per the normalized table mentioned above under the "University Enrollment System" database.

Task 2 –SQL Query (6×4=24 Marks)

- Q2. Find the students whose names have 'r' as the third character.
- Q3. Count the total number of students
- Q4. Retrieve the number of courses taught by each teacher
- Q5. Count the Number of Students Enrolled in Each Course
- Q6. Find the Course with the Most Enrollments
- Q7. Find students enrolled in courses with IDs starting with 'CIS'