Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

Online End Semester Examination, June 2021

Course: Database System & Database Management

Program: MBA(Digital Business)

Course code: DIGM 7002

Semester: II Time: 03 hrs.

Max. Marks: 100

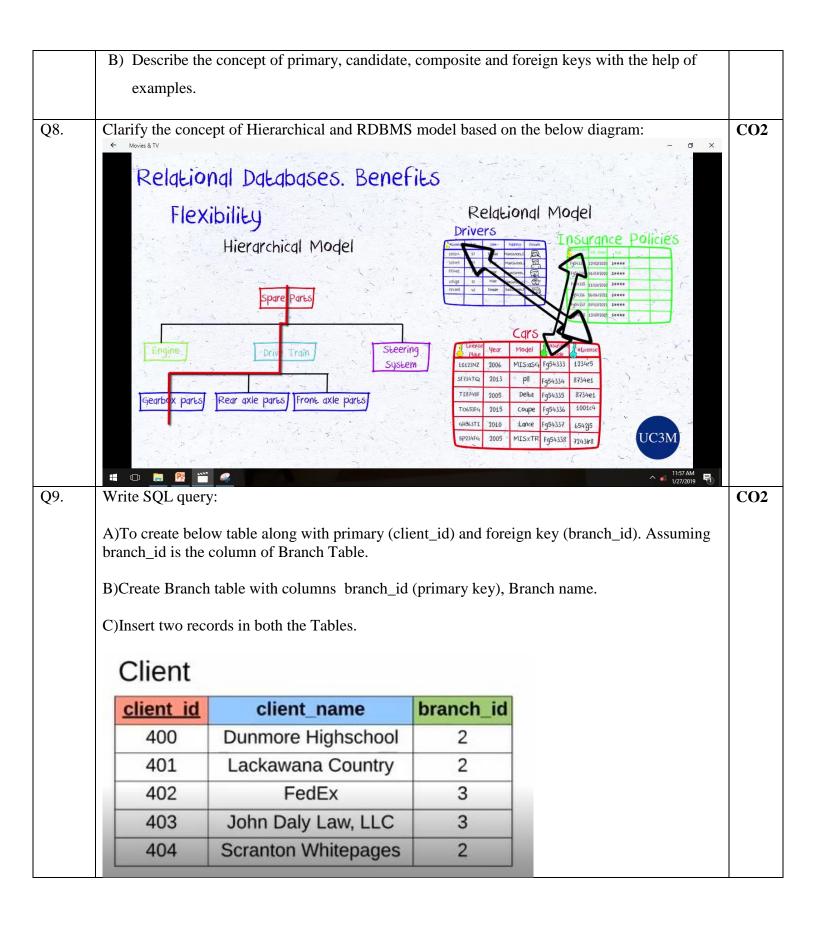
SECTION A

- 1. Each Question will carry 5 Marks
- 2. Instruction: Select/Write the correct answer(s)

S. No.	Question	CO
Q1	Select correct option:	
	I. In the architecture of a database system external level is the	
	(A) physical level.	
	(B) logical level.	
	(C) conceptual level	
	(D) view level.	
	II. Which of the following is a comparison operator in SQL?	
	(A) =	
	(B) LIKE	
	(C) BETWEEN	
	(D) All of the above	
		CO1
	III. In an E-R diagram an relationship is represent by a	
	(A) rectangle.	
	(B) ellipse.	
	(C) diamond box. (D) circle.	
	(D) circle.	
	IV. To delete a particular column in a relation the command used is:	
	(A) UPDATE	
	(B) DROP	
	(C) ALTER	
	(D) DELETE	

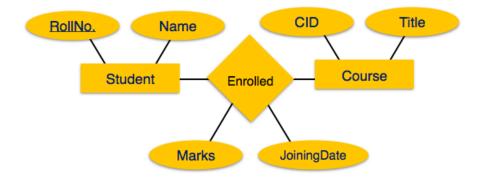
	V. In E-R Diagram derived attribute are represented by (A) Ellipse (B) Dashed ellipse (C) Rectangle (D) Triangle	
Q2	Assuming below CUSTOMERS table. Write following SQL queries: ID NAME	CO2
Q3	Assuming CUSTOMERS table of question 2. Write following SQL queries: a) Update ADDRESS to Pune for a customer whose ID is 6 b) DELETE a customer, whose ID is 6	CO2
Q4	The Pincode column of table 'Post' is given below- Pincode 10001 120012 300048 281001 i. Write a MySQL command to display pincode starts with '1' ii. Which one is the correct output for the following query :- SELECT Pincode from Post where Pincode LIKE " 0%"; i) 110001 ii) No Output	CO1

Q5	Answer the que	estion based on	the table	e VOTER given	below:	CO1
				Table : VOTER		
	Column Name					
	V_id	BIGINT	8	Primary key	Voter identification	
	Vname	VARCH AR	25	Not null Check>17	Name of the voter	
	Age Address	INT VARCH AR2	30	Check-17	Age should not less than equal to 17 Address of voter	
	Phone	VARCH AR	10		Phone number of the voter	
	(i) Write the command 20. (ii) Delete the table		the rows	of particular voter	from the table voter where voter ID between 1	0
Q6.	Select correct option: I. With SQL, how do you select all the records from a table named "Persons" where the "FirstName" is "Peter" and the "LastName" is "Jackson"? A. SELECT * FROM Persons WHERE FirstName<>'Peter' AND LastName<>'Jackson' B. SELECT * FROM Persons WHERE FirstName='Peter' AND LastName='Jackson' C. SELECT FirstName='Peter', LastName='Jackson' FROM Persons II. With SQL, how do you select all the records from a table named "Persons" where the value of the column "FirstName" starts with an "a"? A. SELECT * FROM Persons WHERE FirstName LIKE '%a' B. SELECT * FROM Persons WHERE FirstName LIKE 'a%' C. SELECT * FROM Persons WHERE FirstName='a' D. SELECT * FROM Persons WHERE FirstName='%a%'					
	question will ca ruction: Write sh	•	es	SECTION B		
Q7				with following a	ttributes:	
	• Cid (pri					
	• Cname	(not null)				
	• Cage (d	lefault 30)				CO2
	• Cemail	(not null)				
	• Ccity					
	• Cmob(r	. 11\				1



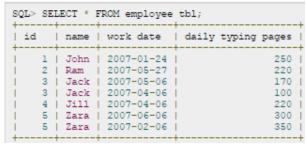
Q10. Identify the entity, attributes and primary key of the below given diagram and convert that E-R diagram into equivalent SQL query to create various tables.

CO₂



Q11 Consider an **employee_tbl** table, which is having the following records:

CO₂



A)Write output for the following SQL:

- i) SELECT COUNT(*) FROM employee tbl WHERE name="Jack";
- ii) SELECT id, name, MIN(daily_typing_pages) FROM employee_tbl GROUP BY name;
- iii) SELECT MIN(daily_typing_pages) Least, MAX(daily_typing_pages) MaximumFROM employee_tbl;
- iv) SELECT AVG (daily_typing_pages) FROM employee_tbl;
- B) Write SQL to display following output:
- i) To count the number of records for Jack
- ii) To fetch minimum value of daily_typing_pages
- iii) Find all the records with maximum value for each name
- iv) Calculate average of all the dialy_typing_pages
- v) To calculate square root of all the dialy_typing_pages

Section C

- 1. Each Question carries 20 (10X2) Marks.
- 2. Instruction: Write long answer.

Q12

Write SQL Commands for the questions on the basis of table Teacher.

Table: Teacher

No.	Name	Age	Department	Dateojjoin	Salary	Sex
1	Jugal	34	Computer	2007-02-10	12000	M
2	Shanti	31	History	2008-03-24	20000	F
3	Sandeep	32	Maths	2009-02-25	14000	M
4	Sangeeta	45	History	2007-04-15	20000	F
5	Rakesh	35	Computer	2007-05-17	21000	M

A) Write SQL query for the following:

- (i) To show all information about the teacher of History department in descending order of their name .
- (ii) To list the male teacher who are in Maths department.
- (iii) To display Name, Salary, Age of all male teacher.

CO3

- (iv) Update the Salary by increasing Rs. 1000 for female teacher.
- (v) To Insert a new record in table Teacher with the following data:
 - 9, 'Raja', 23, 'Hindi', '2005-08-19',12675, 'M'
- (vi) Display the name of those teacher whose name started with alphabet 'S';
- (vii) To Delete those records where Department is History.
- (viii) Write SQL Command to drop the table Teacher.

B) Find the Output of following:

- (i) SELECT ROUND (1.298,1);
- (ii) SELECT POW(3,4);
- (iii) SELECT LOWER('MYSQL QUERY LANGUAGE');
- (iv) SELECT SUBSTR('MYSQL LANGUAGE', 7,8);