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## Daffodil International University Department of ITM Faculty of Science & Information Technology Final Examination, Spring 2025

Course Code: ITM 221; Course Title: Database Management Systems

Sections & Teachers: NJ

Marks: 40

## Time: 2:00 Hrs

Answer ALL Questions

[The figures in the right margin indicate the full marks and corresponding course outcomes. All portions of each question must be answered sequentially.]

	nployee_id	Employee_name		Department_ID D		Department		[Marks-10]	CLO-3
	101	Steven		200		HR			Level-3
	202	John Doe		201		Finance			
	301	Lex		114_		Marketing			
T	402	Alexander Bruce		203 +21		Accounting			
IT	501					IT			
15	alary		DUONE N	DIDED	UIDE DATE				
1	EMPLOYEE_ID	Salary	PHONE_N		HIRE_DATE	Department_ID			
	101	20000 5151234				200			
	202	3598	524123		2005-09-21	201			
	301	79000	5151258567 5151248567 515489567		2001-01-13	203			
	404	348799			2005-06-25	121		The second	
	102	12390		89567	2006-02-05	123			
<ul> <li>Develop SQL queries for the given question:</li> <li>a. Retrieve the average salary for each department.</li> <li>b. Count the number of employees in each department.</li> <li>c. Get the details of employees who work in the "Marketing Department.</li> <li>d. Get the employee information whose name starts with "A".</li> <li>e. Find the phone numbers of those employees who were hired betwee and 3rd January 2006.</li> </ul>						14h # A #	17th June 200	3	
-	Consider the following tables: Topic: DIU library Management								

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4			BookName			me	Publisher			
	To K	Cill a Mockin	ngbird		Harper Lee		HarperCollins			
5	1984				George Orv	vell	Penguin Book	S		
06 The Great Gatsby					F. Scott Fitzgerald Scribner					
Normalize the table from 1NF up to BCNF; examining every step of the process								[Marks-8]		
Distinguish between full functional dependency and partial dependency from the								[Marks-2]		
above tables.								[Marks-4]		
Analyze two anomalies that may exist in the above tables.									[Marks-2]	1
			4		- Cour	se no Co	ourse_title			
udent Id	I SI	tudent_name	e Stud	ent_Add	ress Cour	se_no				
with appropriate attribute type, curculation,								[Marks-4]	Level	
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102	Chicago						Embraer E175	3500		
-			-			A4	Bombardier CRJ	4000		
104	LPOSICIA		4			and the	-	•		
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	rmaliz m those stinguis ove tabl alyze tw adent_Id plain t tablish h appro nsider n fightNo 101	rmalize the tal m those tables stinguish betwo ove tables. alyze two anon ident Id So plain the curre tablish an Ent h appropriate a nsider the follon fightNo from 101 New York 102 Chicago 103 Dallas	rmalize the table from 1 m those tables given in q stinguish between full fu- ove tables. alyze two anomalies that ident 1d Student_nam plain the current normali- tablish an Entity relation h appropriate attribute ty nsider the following 2 to n fightNo from to 101 New York Los Angeles 102 Chicago Miami 103 Dallas Seattle	rmalize the table from 1NF up to m those tables given in question stinguish between full functional ove tables. Alyze two anomalies that may ex- ident 1d Student name Stud plain the current normalization tablish an Entity relationship of h appropriate attribute type, card nsider the following 2 tables fin fightNo from to distance 101 New York Los Angeles 4500 102 Chicago Miami 2000 103 Dallas Seattle 3000	rmalize the table from 1NF up to BCN in those tables given in question 2 with stinguish between full functional dependence ove tables. alyze two anomalies that may exist in the indent 1d Student_name Student_Add plain the current normalization level of tablish an Entity relationship diagram h appropriate attribute type, cardinality, nsider the following 2 tables find the n fightNe from to distance departs 101 New York Los Angeles 4500 10:00 AM 102 Chicago Miami 2000 2:00 PM 103 Dallas Seattle 3000 6:00 PM	The order o	The order output         rmalize the table from 1NF up to BCNF; examining every some those tables given in question 2 with proper explanation.         stinguish between full functional dependency and partial deport tables.         alyze two anomalies that may exist in the above tables.         alyze two anomalies that may exist in the above tables.         adent 1d       Student_Address       Course_no       Course_no         plain the current normalization level of the given table.       Itables find the output of Inner join         n       aircraftd         aircraftd       Aircraftd         Aircraftd       Aircraftd	Interestion of the properties of the prop	Interesting to the process of the proces of the process of the proces of the proces	International content of the process of the process in those tables given in question 2 with proper explanation.       [Marks-8]         stinguish between full functional dependency and partial dependency from the overtables.       [Marks-2]         adject tables.       [Marks-4]         adject tables.       [Marks-2]         adject tables.       [Marks-5]         adject tables.       [Marks-6]         adject tables.       [Marks-6]