Name: **Enrolment No:**	UPES

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2018

Program: BBA- AIS **Semester – III**
Subject (Course): Database Analysis and Design **Max. Marks : 100**
Course Code : DSQT 2002 **Duration : 3 Hrs**
No. of page/s: 6

Instructions: Section A is of 20 Marks, Section B is of 20 Marks, Section C is of 30 Marks, Section D is of 30 Marks (Section D is compulsory)

SET 1
SECTION A

S. No.		Marks	CO
1	DBMS is a collection of ..... that enables user to create and maintain a database. A) Keys B) Translators C) Program D) Language Activity	**2**	**CO1**
2	DFD stands for A) Data Flow Document B) Data File Diagram C) Data Flow Diagram D) None of the above	**2**	**CO1**
3	..... table store information about database or about the system. A) SQL B) Nested C) System D) None of these	**2**	**CO1**
4	..... clause is an additional filter that is applied to the result. A) Select B) Group-by C) Having D) Order by	**2**	**CO1**
5	A logical schema A) is the entire database B) is a standard way of organizing information into accessible parts. C) Describes how data is actually stored on disk.	**2**	**CO1**

	D) All of the above		
6	…… is a full form of SQL. A) Standard query language B) Sequential query language C) Structured query language D) Server side query language	**2**	**CO1**
7	…… is used to define overall design of the database A) schema B) application program C) data definition language D) code	**2**	**CO1**
8	Key to represent relationship between tables is called A) primary key B) secondary key C) foreign key D) none of the above	**2**	**CO1**
9	DBMS helps achieve A) Data independence B) Centralized control of data C) Neither A nor B D) Both A and B	**2**	**CO1**
10	……. command can be used to modify a column in a table A) alter B) update C) set D) create	**2**	**CO1**

SECTION B

Answer any four of the following questions

Q	1. What do you understand by 'Database'?	**5**	**CO1**
Q	2. Define DBMS and RDBMS.	**5**	**CO1**
Q	3. What do you understand by Data Redundancy?	**5**	**CO1**
Q	4. What are the various types of relationships in Database?	**5**	**CO2**
Q	5. What is Normalization?	**5**	**CO2**
Q	6. What are Views	**5**	**CO2**

SECTION-C

(Answer all the questions)

Q	1. Write a SQL statement to display all the information of all salesmen Table: Salesman salesman_id name city commission 5001 James Hoog New York 0.15 5002 Nail Knite Paris 0.13 5005 Pit Alex London 0.11 5006 Mc Lyon Paris 0.14 5003 Lauson Hen Rome 0.12 5007 Paul Adam Rome 0.13	**6**	**CO3**
	2. Write Create Table Statement for **Empid EmpName Department ContactNo EmailId EmpHeadId** 101 Isha E-101 1234567890 isha@gmail.com 105 102 Priya E-104 1234567890 priya@yahoo.com 103 103 Neha E-101 1234567890 neha@gmail.com 101 104 Rahul E-102 1234567890 rahul@yahoo.com 105 105 Abhishek E-101 1234567890 abhishek@gmail.com 102	**6**	**CO3**

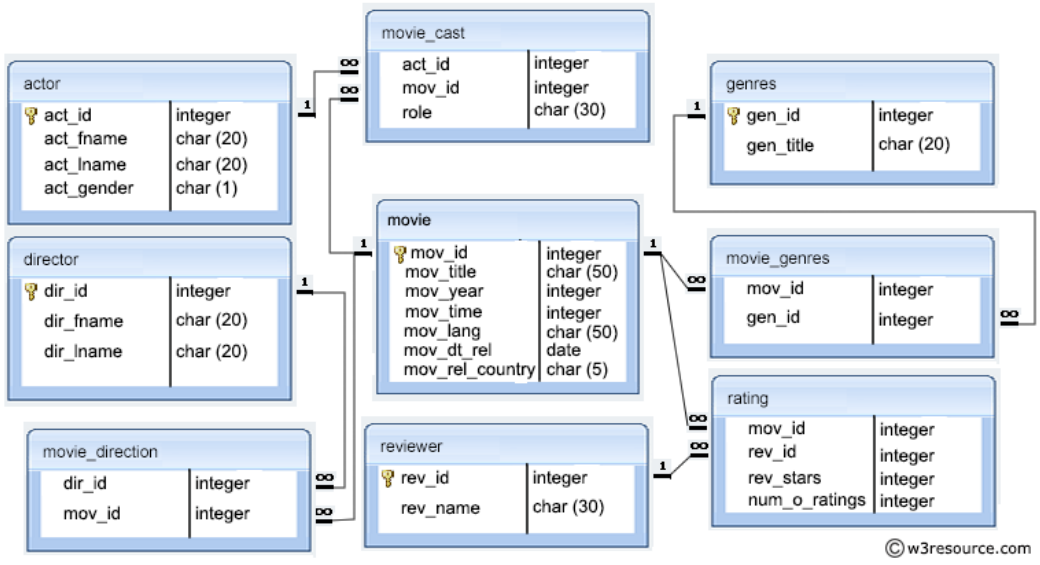
	3. Write a SQL statement to prepare a list with salesman name, customer name and their cities for the salesmen and customer who belongs to the same city. Refer to the following table: **Table Salesman** salesman_id name city commission ---------- ---------- ---------- ---------- 5001 James Hoog New York 0.15 5002 Nail Knite Paris 0.13 5005 Pit Alex London 0.11 5006 Mc Lyon Paris 0.14 **Table Customer** customer_id cust_name city grade salesman_id ---------- ---------- ---------- ---------- ---------- 3002 Nick Rimando New York 100 5001 3005 Graham Zusi California 200 5002 3001 Brad Guzan London 5005 3004 Fabian Johns Paris 300 5006 3007 Brad Davis New York 200 5001 3009 Geoff Camero Berlin 100 5003 3008 Julian Green London 300 5002 3003 Jozy Altidor Moscow 200 5007	**6**	**CO3**
	4. Write a query in SQL to display the full name (first and last name), and salary for those employees who earn below 6000.	**6**	**CO3**
	5. Write insert statement for following record in table Customers **Values to be inserted in CustomerName, ContactName, Address, City, PostalCode, Country Are the following values** **'Tom B. Erichsen', 'Skagen 21', 'Stavanger', '4006', 'Norway'**	**6**	**CO3**

CustomerID	CustomerName	ContactName	Address	City	PostalCode	Country
89	White Clover Markets	Karl Jablonski	305 - 14th Ave. S. Suite 3B	Seattle	98128	USA
90	Wilman Kala	Matti Karttunen	Keskuskatu 45	Helsinki	21240	Finland
91	Wolski	Zbyszek	ul. Filtrowa 68	Walla	01-012	Poland

SECTION-D

Q **Refer to the diagram below Part A and answer the questions mentioned in Part B**

Part A



	Part B **1.** Write a query in SQL to find the name and year of the movies. **2.** Write a query in SQL to find the name of all reviewers who have rated 7 or more stars to their rating. **3.** Write a query in SQL to find the titles of all movies that have no ratings. **4.** Write a query in SQL to find the titles of the movies with ID 905, 907, 917. 5. Write a query in SQL to delete records from table director. **6.** Write query for updating mov_id in Movie Direction table as ‘ MOV348’	**5** **5** **5** **5** **5** **5**	**CO3** **CO3** **CO3** **CO3** **CO3** **CO3**

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SET 2
SECTION A

S. No.		Marks	CO
1	DBMS is a collection of ..... That enables user to create and maintain a database. A) Keys B) Translators C) Program D) Language Activity	**2**	**CO1**
2	DFD stands for A) Data Flow Document B) Data File Diagram C) Data Flow Diagram D) None of the above	**2**	**CO1**
3	..... table store information about database or about the system. A) SQL B) Nested C) System D) None of these	**2**	**CO1**
4	..... clause is an additional filter that is applied to the result. A) Select B) Group-by C) Having D) Order by	**2**	**CO1**
5	A logical schemaA logical schema A) is the entire database B) is a standard way of organizing information into accessible parts. C) Describes how data is actually stored on disk. D) All of the above	**2**	**CO1**

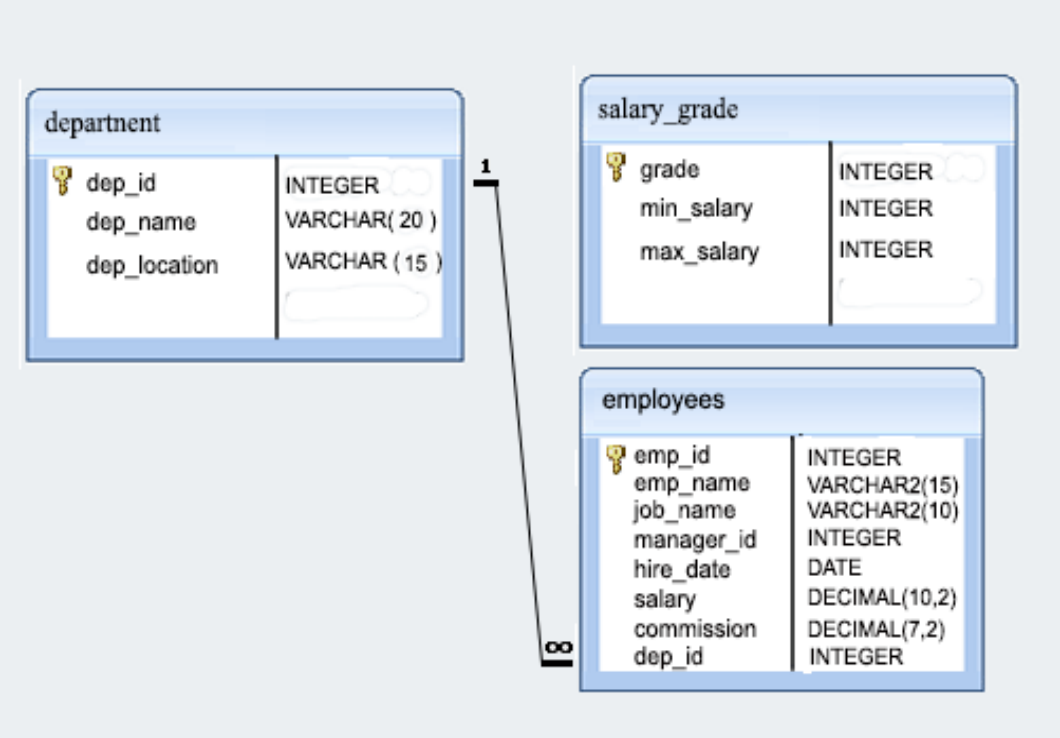
6	…… is a full form of SQL. A) Standard query language B) Sequential query language C) Structured query language D) Server side query language	**2**	**CO1**
7	…… is used to define overall design of the database E) schema F) application program G) data definition language H) code	**2**	**CO1**
8	Key to represent relationship between tables is called E) primary key F) secondary key G) foreign key H) none of the above	**2**	**CO1**
9	DBMS helps achieve E) Data independence F) Centralized control of data G) Neither A nor B H) Both A and B	**2**	**CO1**
10	……. command can be used to modify a column in a table E) alter F) update G) set H) create	**2**	**CO1**

SECTION B

Answer any four of the following questions

Q	1. What do you understand by 'Database'?	**5**	**CO2**
Q	2. Define DBMS and RDBMS.	**5**	**CO2**
Q	3. What do you understand by Data Redundancy? ...	**5**	**CO2**
Q	4. What are the various types of relationships in Database?	**5**	**CO1**
Q	5. What is Normalization	**5**	**CO2**
Q	6. What are Views	**5**	**CO2**
	SECTION-C **(Answer all the questions)**		
Q	1. Write a SQL statement to display all the information of all salesmen Table: Salesman salesman_id name city commission 5001 James Hoog New York 0.15 5002 Nail Knite Paris 0.13 5005 Pit Alex London 0.11 5006 Mc Lyon Paris 0.14 5003 Lauson Hen Rome 0.12 5007 Paul Adam Rome 0.13	**6**	**CO3**
	2. Write Create Table Statement for **Empid EmpName Department ContactNo EmailId EmpHeadId** 101 Isha E-101 1234567890 isha@gmail.com 105 102 Priya E-104 1234567890 priya@yahoo.com 103 103 Neha E-101 1234567890 neha@gmail.com 101 104 Rahul E-102 1234567890 rahul@yahoo.com 105 105 Abhishek E-101 1234567890 abhishek@gmail.com 102	**6**	**CO3**
	3. Write a SQL statement to prepare a list with salesman name, customer name and their cities for the salesmen and customer who belongs to the same city. Refer to the following Tables: **Table Salesman**	**6**	**CO3**

	salesman_id name city commission ---------- ---------- ---------- ---------- 5001 James Hoog New York 0.15 5002 Nail Knite Paris 0.13 5005 Pit Alex London 0.11 5006 Mc Lyon Paris 0.14 **Table Customer** customer_id cust_name city grade Salesman_id 3002 Nick Rimando New York 100 5001 3005 Graham Zusi California 200 5002 3001 Brad Guzan London 5005 3004 Fabian Johns Paris 300 5006 3007 Brad Davis New York 200 5001 3009 Geoff Camero Berlin 100 5003 3008 Julian Green London 300 5002 3003 Jozy Altidor Moscow 200 5007		
	4. Write a query in SQL to display the full name (first and last name), and salary for those employees who earn below 6000.	**6**	**CO3**
	5. Write insert statement for following record in table Customers please refer to the values below the table **CustomerID** **CustomerName** **ContactName** **Address** **City** **PostalCode** **Country** 89 White Clover Markets Karl Jablonski 305 - 14th Ave. S. Suite 3B Seattle 98128 USA 90 Wilman Kala Matti Karttunen Keskuskatu 45 Helsinki 21240 Finland	**6**	**CO3**

	91 Wolski Zbyszek ul. Filtrowa 68 Walla 01-012 Poland **Values to be inserted in CustomerName, ContactName, Address, City, PostalCode, Country Are the following values** **'Albert Tom, 'Rafel 43', 'Broadway ', '4006', 'Spain**		
	SECTION-D		
Q	**Refer to the diagram below Part A and answer the questions mentioned in Part B**		
	Part A  **Part B** 1. Write a query in SQL to display all the information of the employees. 2. Write a query in SQL to find the salaries of all employees. 3. Write a query in SQL to display the unique designations for the employees. 4. Write a query in SQL to list the employees with Hire date in the format like February 22, 1991 5. Write a query in SQL to display all the details of the employees whose commission is more than their salary 6. Write a query in SQL to list the name, job_name, and salary of any employee whose designation is ANALYST.	**5** **5** **5** **5** **5** **5**	**CO3** **CO3** **CO3** **CO3** **CO3** **CO3**
