<u>Dashboard</u> / My cou	rses / CS204 / General / Mid Semester Online Part 1 (8 March 2022)
Started on	Tuesday, 8 March 2022, 10:00 AM
State	Finished
	Tuesday, 8 March 2022, 10:39 AM
	39 mins 21 secs
	39.00/50.00
Grade	<b>7.80</b> out of 10.00 ( <b>78</b> %)
Question <b>1</b>	
Complete	
Mark 0.00 out of 2.00	
	wo relations location(city, state, country) and weather(city, temperature, humidity, condition). What will be the query for es where the weather condition is cloudy.
·	from location where city in (select city from location where condition = 'cloudy');
<ul> <li>Select country</li> </ul>	from location where condition = 'cloudy';
Select country	from location where city intersect (select city from weather where condition = 'cloudy');
<ul><li>Select country</li></ul>	from location where city union (select city from weather where condition = 'cloudy');
<ul><li>Select country</li></ul>	from location where city in (select city from weather where condition = 'cloudy')
Question <b>2</b>	
Complete	
Mark 1.00 out of 1.00	
The following are for	unctions of a DBMS except
O Processing Da	ta
<ul> <li>Administrating</li> </ul>	g Databases
<ul><li>Creating Data</li></ul>	bases
Creating and p	processing forms

Question 3
Complete
Mark 1.00 out of 1.00
Logical database design describes base relations, file organizations, and indexes that are used to achieve efficient access to data.
Select one:
○ True
False
© Taise
Question 4
Complete
Mark 1.00 out of 1.00
Which one of the following keyword is used to find out the number of values in a column?
○ Sum
○ Add
O Add
O Total
Count
Question 5
Complete
Mark 1.00 out of 1.00
Each entity is described by
Attribute
O Entity
Entity
O Relationship
O None of these

Question <b>6</b>
Complete
Mark 1.00 out of 1.00
In the relational schema, any many-to-one and one-to-many relationship sets that are total on the many-side can be represented by,
Adding an extra attribute to the "one" side, containing the primary key of the "many" side
Adding a null value to the "many" side, which is not having association with one side
Adding an extra attribute to the "many" side, containing the primary key of the "one" side
Adding a null value to the "one" side which is not having association with many side
Question <b>7</b> Complete
Mark 0.00 out of 2.00
An ER model of a database consists of entity types A and B. These are connected by a relationship R which does not have its own attribute. Under which one of the following conditions, can the relational table for R be merged with that of A?
Relationship R is many-to-one from B to A and the participation of A in R is partial.
Relationship R is one-to-many from B to A and the participation of A in R is total.
Relationship R is one-to-many from B to A and the participation of A in R is partial.
Relationship R is many-to-one from B to A and the participation of A in R is total.
Question <b>8</b>
Complete
Mark 1.00 out of 1.00
Data dictionary is responsible for keeping the,
O Data about specific users
Data about data
O Data about user
O Data about relation

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Question <b>9</b> Complete	
Mark 2.00 out of 2.00	
Let R and S be two relations with the following so R ( $\underline{P},\underline{Q},R1,R2,R3$ ) S ( $\underline{P},\underline{Q},S1,S2$ ) Where { $P$ , $Q$ } is the key for both schemas. Which of I. $\Pi_P$ ( $R$ $\longrightarrow$ S) II. $\Pi_P$ ( $R$ ) $\longrightarrow$ $\Pi_P$ (S) III. $\Pi_P$ ( $\Pi_{P,Q}$ ( $R$ ) $\cap$ $\Pi_{P,Q}$ (S)) IV. $\Pi_P$ ( $\Pi_{P,Q}$ ( $R$ ) $-$ ( $\Pi_{P,Q}$ ( $R$ ) $ \Pi_{P,Q}$ (S)))  Only I and III	
Only I, II and III	
Only I, III and IV	
Question 10 Complete	
Mark 1.00 out of 1.00	

Creating specializations of employees based on all possible Categories (Gen, SC, ST, OBC, EWS etc.) satisfies which of the following constraints?

- ✓ Total
- Partial
- Disjoint
- Overlapping

Question 11 Complete
Mark 1.00 out of 1.00
Which of the following SQL command is used to select only one copy of each set of duplicate rows?
Select Unique
<ul><li>Select Top 1</li></ul>
<ul> <li>All of the above</li> </ul>
Select Different
<ul> <li>Select Distinct</li> </ul>
Question 12 Complete
Mark 2.00 out of 2.00
Suppose we have two relations location(city, state, country) and weather(city, temperature, humidity, condition). What will be the query for finding the names of all cities with their temperature, humidity and countries.  Select location.city, temperature, humidity, country from weather, location where city = select city from location where location.city = weather.city;  Select city, temperature, humidity, country from location;  Select weather.city, temperature, humidity, country from weather, location;  Select location.city, temperature, humidity, country from weather, location where weather.city=location.city;
Question 13 Complete Mark 2.00 out of 2.00
In an E-R diagram, If there is a directed double line (=>) from the relationship "advisor" to the entity set "instructor" and undirected single line from the relationship "advisor" to the entity set "student", then it denotes,  A student can have more than one instructor as an advisor and the instructor must be an advisor of atleast one student  A single student can not have more than one instructor as an advisor and the instructor must be an advisor of atleast one student  An instructor can be an advisor of more than one student and a student must have atleast one advisor

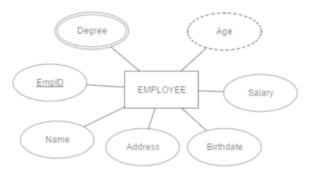
O An instructor can not be an advisor of more than one student and a student must have atleast one advisor

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Question <b>14</b>	
Complete	
Mark 2.00 out of 2.00	
Suppose we have the relations X1(a, b) and	d X2(c,d). Consider the following query,
select distinct a, b from X1, X2	
The output of the above query will definite	ely be the same as X1 if,
<ul> <li>X1 and X2 have no duplicates</li> </ul>	
<ul> <li>X2 has no duplicates and X1 is non-e</li> </ul>	mpty
X1 has no duplicates and X2 is non-e	mpty
<ul> <li>X1 and X2 have the same number of</li> </ul>	tuples
Question <b>15</b>	
Complete	
Mark 1.00 out of 1.00	
Which is not a data model?	
Entity Relationship Model	
Hierarchical data model	

- Semi-structured data model
- Relational model
- Semantics data model

Question **16**Complete

Mark 1.00 out of 1.00



The following diagram is having the entity,

- Degree
- EmpID
- Employee
- Derived Birthdate

Question 17

Complete

Mark 1.00 out of 1.00

The purpose of the E-R diagram is to,

- Simplify Database Programming
- Simplify Database Access
- Simplify Database Organization
- Simplify Database Design

0/22, 0.25 PW	Mid Semester Offline Part 1 (6 March 2022). Attempt review
Question 18	
Complete	
Mark 1.00 out of 1.00	
The structural constraint that specifies the minimum	n number of relationship instances that an entity can participate in is
Existence Dependency	
<ul><li>Participation Constraint</li></ul>	
Cardinality Ratio	
O Identifying Relationship	
Question 19	
Complete	
Mark 1.00 out of 1.00	
An ERs purpose is to support a user's perception of Select one:  True False	the data and conceal the technical aspects associated with database design.
Question <b>20</b>	
Complete	
Mark 0.00 out of 1.00	
Weak entities MUST satisfy which of the following s	structural constraints.
<ul><li>Existence Dependency</li><li>Cardinality Ratio</li></ul>	
<ul><li>Identifying Relationship</li><li>Participation Constraint</li></ul>	
- ranticipation Constitatifit	

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Question 21	
Complete	
Mark 2.00 out of 2.00	
Find the names of those students with section and r	marks whose marks grater than 60 but section must be either A or B.

Select name, section, marks from student\_data where section = A and section = B and marks > 60;
 Select name, section, marks from student\_data where section = A and section = B or marks > 60;
 Select name, section, marks from student\_data where section = A or B and marks > 60;
 Select name, section, marks from student\_data where section = A or section = B and marks > 60;
 Select name, section, marks from student\_data where section = A or section = B or marks > 60;

Question 22
Complete
Mark 1.00 out of 1.00

In the following Query, which of the following can be placed in the Query's blank portion to display the salary from highest to lowest amount, and sorting the employs name alphabetically?

SELECT \*
FROM instructor
ORDER BY salary \_\_\_\_, name \_\_\_\_;

- Desc, Asc
- Ascending, Descending
- Asc, Desc
- Descending, Ascending

Question <b>23</b>		
Complete		
Mark 0.00 out of 1.00		
What will be the output of the following query,		
select distinct T.name from instructor as T, instructor as S where T.salary > S.salary and S.dept name = 'Bi	ology';	
Find names of instructors with salary great	ter than that of some i	nstructor in the Biology department.
Find names of instructors with salary great	ter than that of all instr	uctor in the Biology department.
Find names of instructors with salary great	ter than that of at least	two instructor in the Biology department.
Find names of instructors with salary great	ter than that of at least	two instructor
Question <b>24</b> Complete Mark 2.00 out of 2.00		
Match the concepts to the correct category of c	data models:	
entity, attributes and relationships	Conceptual	
relations, tuples, rows, fields	Implementation	
Record format, record orderings, access paths	Physical	
Question <b>25</b> Complete		
Mark 1.00 out of 1.00		
The structural constraint that specifies the maxi	mum number of relation	onship instances that an entity can participate in is
Participation Constraint		
Existence Dependency		
<ul><li>Cardinality Ratio</li></ul>		
Identifying Relationship		

• • • • • • • • • • • • • • • • • • • •
Question <b>26</b> Complete
Mark 2.00 out of 2.00
If we have two relations <i>employee</i> ( <i>name</i> , <i>salary</i> , <i>deptno</i> ) and <i>department</i> ( <i>deptno</i> , <i>deptname</i> , <i>address</i> ) then select the query that cannot be expressed using the basic relational algebra operations (U, -, x, $\pi$ , $\sigma$ , p)?
The sum of all employees' salaries
Department address of every employee
Employees whose name is the same as their department name
All employees of a given department
Question 27 Complete
Mark 0.00 out of 1.00
Given a set S, it's powerset is denoted by P(S). Assuming that D represents the domain of an attribute B of an entity type X, which of the following functions make sense?  B: X> P(D)  X: B> P(D)  X: P(D)> B  B: P(X)> D
Question 28  Complete  Mark 1.00 out of 1.00
Creating specializations of employees based on Religion satisfies which of the following constraints? (Hindu, Muslim, Christian are the only options provided whereas some employees may have other than these three religion also)
☑ Partial ☐ Total
□ Total
<ul><li>□ Overlapping</li><li>☑ Disjoint</li></ul>
- Pojonic

Question 29
Complete  Mark 0.00 out of 1.00
Data isolation in the file system is the result of,
Failure of the system
Adding the condition based on the user requirements
<ul> <li>Concurrent access by multiple users</li> </ul>
Multiple files and formats
Question 30
Complete  Mark 1.00 out of 1.00
Creating specializations of students based on those doing Academic Research and those doing Industry Internships satisfies which of the following constraints? (It is mandatory to engage in at least one of these (Both may also be considered) as part of the Summer Internship.)
☑ Total
☐ Disjoint
☐ Partial
✓ Overlapping
Question 31
Complete  Mark 1.00 out of 1.00
The three-schema architecture was proposed to help achieve and visualize which of the following characteristics of the database approach?
Multiple User View
☐ Multiuser Transaction Processing
☑ Data Abstraction
Self-describing nature of a database
☐ Sharing of Data

Question 32
Complete  Mark 1.00 out of 1.00
If Database Administrator modify the structure of the data record then this modification do not affect other application is called as
Data Independance
O Data Security
Oata Isolation
O Data Integrity
Question 33
Complete  Mark 1.00 out of 1.00
A key defines a uniqueness constraint on the tuples in a relation. Which among the following types of keys violates this definition?
○ Candidate key
O Primary key
○ Super key
Partial key
Question <b>34</b> Complete
Mark 1.00 out of 1.00
Logical data independence provides transparency between which two layers of the Three-Schema Architecture?
External and Internal
Conceptual and Internal
External and Conceptual

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Question <b>35</b>		
Complete		
Mark 1.00 out of 1.00		
A transaction is,		
a collection of operations that	performs multiple logical function in a database application	
a single operations that perform	ms multiple logical function in a database application	
a single operations that perform	ms a single logical function in a database application	
<ul><li>a collection of operations that</li></ul>	performs a single logical function in a database application	
Question <b>36</b>		
Complete		
Mark 1.00 out of 1.00		
Which one of the following refers to	the copies of the same data (or information) occupying the memory space at multiple places.	
O Data Inconsistency		
Data Redundancy		
O Data Mining		
O Data Repository		

22, 0.23 i Wi	wild definested crimine if art i (d wateri 2022). Attempt review
Question <b>37</b>	
Complete	
Mark 1.00 out of 1.00	
Consider the following Query,	
SELECT name, course_id FROM instructor, teacher	es WHERE instructor.ID= teaches.ID;
The above query can also be replaced with,	
Select course_id from instructor join teache	S;
<ul> <li>Select name,course_id from teaches,instruct</li> </ul>	tor where instructor.id=course.id;
<ul> <li>Select name, course_id from instructor;</li> </ul>	
Select name, course_id from instructor natu	ıral join teaches;
Question 38	
Complete	
Mark 0.00 out of 2.00	
Select the correct result of following logical expre	ossions (hara Unknown magns NULL)
I.) Unknown OR True	essions, (Here Officiowit Hearts NOLL)
II.) True AND Unknown	
III.) Unknown AND False	
IV.) NOT Unknown	
(I.) True (II.) False (III.) False (IV.) Unknown	
(I.) True (II.) Unknown (III.) False (IV.) Unknow	vn
(I.) Unknown (II.) False (III.) False (IV.) Unknown	wn
(I.) Unknown (II.) Unknown (III.) False (IV.) Fal	lse

Question 39
Complete
Mark 1.00 out of 1.00
The following image is a symbol for  Relationship  Attribute  Weak Entity  Entity
Question 40 Complete Mark 0.00 out of 1.00
The property that apps can operate on data by invoking methods through their signatures, irrespective of how the method has been implemented, is know as  Data model  Program-operation independence  Data abstraction  Program-data independence
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Mid Semester Online Part 2 (8 March 2022) ►