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## WINTER – 2019 EXAMINATION MODEL ANSWER

Subject: Principles of Database Subject Code: 22321

#### **Important Instructions to examiners:**

- 1) The answers should be examined by key words and not as word-to-word as given in the model answer scheme.
- 2) The model answer and the answer written by candidate may vary but the examiner may try to assess the understanding level of the candidate.
- 3) The language errors such as grammatical, spelling errors should not be given more Importance (Not applicable for subject English and Communication Skills).
- 4) While assessing figures, examiner may give credit for principal components indicated in the figure. The figures drawn by candidate and model answer may vary. The examiner may give credit for any equivalent figure drawn.
- 5) Credits may be given step wise for numerical problems. In some cases, the assumed constant values may vary and there may be some difference in the candidate's answers and model answer.
- 6) In case of some questions credit may be given by judgement on part of examiner of relevant answer based on candidate's understanding.
- 7) For programming language papers, credit may be given to any other program based on equivalent concept.

Q.	Sub	Answer	Marking
No	Q.N.		Scheme
1.		Attempt any FIVE:	10
	<b>(a)</b>	Define (i) Data Abstraction, (ii) Data Redundancy.	2M
	Ans.	(i) Data Abstraction:	
		Data Abstraction is hiding the details of data organization and storage	
		and highlighting the essential features for an improved understanding	Each
		of data.	definitio
		(ii) Data Redundancy:	n 1M
		The Data redundancy is the storing of same data multiple times.	
		This leads to duplication of effort. Second, storage space is wasted.	
	(b)	Define the term tuple and domain.	2M
	Ans.	tuple: A row is called a Tuple.	2111
	711150		Each
		<b>domain:</b> A domain is a set of all possible (or permissible) values in an	definitio
		attribute.	n 1M
		OR	10 11/1
		A Domain is defined as a kind of data represented by an attribute.	
	<b>(c)</b>	Define primary key and candidate key.	<b>2M</b>
	Ans.		





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	D.:	
	<b>Primary key:</b> The PRIMARY KEY uniquely identifies each record in a database table. Primary keys must contain unique values. A	
	primary key column cannot contain NULL values. Each table should	
	have a primary key, and each table can have only one primary key.	Each
	have a primary key, and each table can have only one primary key.	definitio
	Candidate key: A minimal super key is called a candidate key. An	n 1M
	entity set may have more than one candidate key.	
	A candidate key is a column, or set of columns, in a table that can	
	uniquely identify any database record without referring to any other	
	data. Each table may have one or more candidate keys, but one	
	candidate key is special, and it is called the primary key.	
(d)	Define constraints, list types.	2M
Ans.	Constraints are used to limit the type of data that can go into a table.	Definitio
	Constraints are used to ensure accuracy and consistency of data in a	n 1M
	relational database.	
	Types of Constraints	
	Types of Constraints: 1.NOT NULL Constraint	
	2.DEFAULT Constraint	Types
		<i>1M</i>
	3.UNIQUE Constraint 4.CHECK Constraint	
	5. Primary Key Constraint	
(-)	6. Foreign Key Constraint	23.4
(e)	Define Data and instance.	2M
Ans.	<b>Data:</b> Data can be defined as facts or information that can be	E
	recorded and have an implicit meaning.	Each
	<b>Instance:</b> The collection of information stored in the database at a	definitio
	particular moment is called an instance of the database.	n 1M
<b>(f)</b>	Write Syntax for create table.	2M
Ans.	Syntax of Create table:	
	CREATE TABLE table_name(	Correct
	column1 datatype (size),	syntax
	column2 datatype(size),	2M
	column3 datatype(size),	
	columnNdatatype(size)	
	);	
(g)	Define Normalization, list its types.	2M
Ans.		





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	T		1	
		<b>Normalization</b> is a systematic approach of decomposing tables to		
		eliminate data redundancy(repetition) and undesirable characteristics		
		like Insertion, Update and Deletion Anomalies. It is a multi-step		
		process that puts data into tabular form, removing duplicated data		
		from the relation tables.		
		Types of Normalization are:	Types	
		1NF,2NF,3NF,4NF,5NF	1M	
2.		Attempt any THREE of the following:	12	
	(a)	Explain three tier architecture of database with the help of	<b>4M</b>	
		diagram.		
	Ans.			
		Client GUI, Web Interface Layer		
		1	Diagram	
			2M	
		Application Server or Application Programs, Business Logic Layer		
		Web Server Web Pages		
		Database Database		
		Server Management Services System Layer		
		s. (b)		
		Application conversor Web conver		
		Application server or Web server		
		Adds intermediate layer between client and the database server		
		Runs application programs and stores business rules		
		Clients contain GUI interfaces and some additional application-		
		specific business rules.		
		The intermediate server accepts requests the clients, processes the		
		requests and sends database commands to the database server and		
		then acts as a conduit for passing (partially processed data from the		
		database server to the clients, when it may be processed further and		
		filtered to be presented to users in GUI format. Thus the user		
	<b>(3.</b> )	interfaces, application rules and the database acts as three tier.		
	<b>(b)</b>	Describe client server system with example.		
	Ans.	Client server system consists of two logical components. One is	D	
		"Client" and the other one is "Server". Clients are those who send the	Descript	
		request to perform a specific task to the server. Servers normally	ion 2M	
		receive the command sent by the clients, perform the task and send		





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	the appropriate result back to the client.	
	<b>Example</b> of client is PC where as the server is a large work station. The Client machine runs own copy of an operating system. It runs one or more applications through client's CPU and memory. But server runs a database management system which manages the whole database.	Example 2M
(c)	Explain Generalization with example.	4M
Ans		11/2
Ans	level entities combine together to form a higher level new entity if they have common attributes in common. The new generalized entity can further combine together with lower level entity to create a further higher level generalized entity.  **For Example**, STUDENT and FACULTY** can be generalized to a higher level entity called PERSON  **Page 1. **Page 2. **Page 3. **Page	Explana tion 2M  Example 2M
	S_FEE	434
(d)	Explain components of database in detail.	<b>4M</b>
Ans	-	
	(i) Query processor: The query processor transforms user queries	
	into a series of low level instructions. It is used to interpret the online user's query and convert it into an efficient series of operations in a	
	form capable of being sent to the run time data manager for	
	execution.	
	(ii) Run time database manager: Run time database manager is the	





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	of the student should not be null. So we can apply the not null	
	constraint to the name attribute.	
	General syntax (While creating table)	
	Create table tablename(attr1 datatype(size), attr2 datatype(size) not	
	null,attr3 datatype(size));	Syntax
	After creating the table	and
	Alter table tablename modify attr not null;	example
	Example:	<i>2M</i>
	Create table student(rollno number(5),name varchar(30) not	
	null,sscper number(3));	
	Alter table student modify name not null;	
	2. <b>Check</b> – allows enforcing domain integrity by limiting the values	
	accepted by an attribute.	
	Eg: consider an attribute age of the entity employee. If age should be	
	limited to 60, check constraint can be used	
	General syntax:	
	Create table tablename(attrl datatype(size),attr2 datatype(size)	
	constraint nameofconstraint check(attr <value));< th=""><th></th></value));<>	
	or	
	Alter table tablename add constraint nameofconstraint	
	check(attr <value)< th=""><th></th></value)<>	
	Eg:	
	Create table emp(empno number(4),name varchar(30),age number(3)	
	constraint chk_emp check(age>60));	
	or	
	Alter table emp add constraint chk_emo check(age>60)	
<b>(b)</b>	Describe benefits and drawbook of denormalization.	4M
Ans.	Benefits of denormalization:	
	Reduce number of relations: It reduce the number of relations	
	because it combines two relations into one new relation.	
	Reduce number of foreign keys: It reduce number of foreign keys	
	because number of relations is reduced.	Any 2
	• Minimizes need for joins: It minimizes need for joins because it	benefits
	combines many relations into one.	and 2
	• Increase Performance: It increase performance of database by	drawbac
	adding redundant data or by grouping data.	k 1M
		each
	Drawbacks of demoralization:	
	• Slow Data Updates: It may speed up the retrieval but can slow	





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	<ul> <li>down database updates</li> <li>Increase size of relations: It can increase size of the relations due to combining multiple relations into one single relation.</li> <li>Complex implementation: It may simplify implementation in some cases but may make it more complex in other.</li> <li>Application Specific: It is always application-specific and needs to be re-evaluated if the application changes.</li> </ul>	4
(c)	Explain different types of attribute with example and their	<b>4M</b>
	symbols used in ER diagram.	
Ans.	Different types of attributes are:  1. Simple attribute: A simple attributes are those which cannot be subdivided.  Eg:Rollno- symbol  2. Composite attribute: a composite attribute is that which can be subdivided  Eg: name - can be divided into first_name, middle_name and last_name  Symbol	Any four attribute s 1M each
	<ul> <li>3. Single valued attribute- an attribute which can have only one value for an entity. Eg:ssc_per Symbol: </li> <li>4. Multivalued attribute - an attribute that can take more than one value for an entity.</li> </ul>	
	Eg:phoneno	





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	5. Derived attribute - an attribute for which the value can be calculated or determined from another attribute <i>Eg</i> : age from dateofbirth Symbol		
(d)	Differentiate between Hierarchical Database model and network	<b>4M</b>	
A	database model.		
Ans.	Sr. Hierarchical data model Network data model		
	No.		
	1 Represents tree like structure Represents tree like structure with one root structure with many roots	Any	
	2 Reflects 1:N (one-to- Reflects M:N(many to many) relations many) relations	four points	
	There can be only one parent Allows a child to have more node than one parent	1M each	
	4 Relationships between records is of parent-child type as pointers or links		
	5 There are multiple occurrence of child records and therefore inconsistency inconsistency is only a single occurrence of a record set.		
	6 Searching a record is difficult as a child can be reached only through a parent searching a record is easy as there are multiple paths to a data element.		





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4.		Attempt any THREE of the following:	12
	(a)	Explain functional dependency with example.	4M
	Ans.	A functional dependency occurs when one attribute in a relation	
		uniquely determines another attribute.	Explana
		OR	tion 2M
		Consider a relation say $R(X,Y)$ , where X and Y are one or more than	
		one attribute, attribute X is functionally dependent on attribute Y	
		if every value in X in the relation R has exactly one value of Y in the	Example
		given relation.	2M
		The functional dependency is represented as $X \rightarrow Y$ , which specifies	
		Yis functionally dependent on X or X attribute functionally determine	
		the attribute Y.	
		Consider the schema, student(rollno, name, sseper).	
		rollno name, rollno sscper are the functional dependencies. rollno	
		uniquely identifies name and sscper. That is, given rollno of a	
	( <b>b</b> .)	student, the name and sscper can be determined or searched.	41/4
	(b) Ans.	Explain merits and demerits of Object Oriented Database model.  Object oriented models were introduced to overcome the	4M
	Alis.	Object oriented models were introduced to overcome the shortcomings of conventional models like Relational, Hierarchical	
		and network model. An object-oriented database is collection of	
		objects whose behavior, state, and relationships are defined in	
		accordance with object-oriented concepts (such as objects, class, class	
		hierarchy etc).	
			Any 2
		Merits:	merits &
		Object oriented data model allows the real world to be modeled	demerits
		closely. The object encapsulates both state and behavior. The	1M each
		object can also store the relations with other objects.	
		It allows new data types to be built from existing types.	
		Redundancy can be reduced as common factors of several classes	
		can be grouped into a super class and can be shared by the sub	
		classes.	
		It can be used to store a variety of data.	
		Data evolution is easier.	
		Demerits:	
		There is a lack of universal data model.	
		Use of this type of modeling is still limited.	
		It lacks standards since there is no universal data model.	





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		• Increased functionality provided by this modeling makes	it
		complex.	
		There is no view mechanism	
		There is no adequate security mechanism.	
	(c)	Draw the symbols used for entity relationship diagram	and write 4M
	(C)	their meaning.	and write 4M
	Ans.	then meaning.	
	Alls.		
		Represents Entity	
		Represents Attribute	
		Represents Relationship	
			4
		Links Attribute(s) to entity set(s) or	Any
		Entity set(s) to Relationship set(s)	eight
			¹/2 <b>M</b>
		Represents Multivalued Attributes	each
		Represents Derived Attributes	
		Represents Total Participation of Ent	ity
		Represents Weak Entity	
		Represents Weak Relationships	
		<b>*</b>	
		Represents Composite Attributes	
		Represents Key Attributes / Single V	alued
		Attributes	
	(d)	Explain any 4 Codd's rules.	4M
	Ans.	Codd rules:	
		Rule 1: The information rule a has to be presented t	o the user
		should be in the form of table.	
L	ı	1	





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#### **Rule 2: Guaranteed Access Rule**

Whole data should be available or accessible to the user without any ambiguity. The ambiguity can be avoided only through the perfect combination of the table name, primary key, and column name.

### **Rule 3: Systematic treatment of null values**

The null values i.e. absence of the values in the table should be treated properly. The table should allow a field to remain empty. This is not applicable to primary keys. Key columns cannot have null values.

Any four rules 1M each

# Rule 4: Active on-line catalog based on the relational model Fourth rule specifies need of dynamic on-line catalog based on the

relational model. There are certain system tables that stores the database definition should be present. The data accessing tools should be used to access the database structure information.

Rule 5: The comprehensive data sub language rule: The system must support at least one relational language that Has a linear syntax Can be used both interactively and within application programs, Supports data definition operations (including view definitions), data manipulation operations (update as well as retrieval), security and integrity constraints, and transaction management operations (begin, commit, and rollback).

Rule 6: The view updating rule: All views those can be updated theoretically, must be updated by the system.

Rule 7: High-level insert, update, and delete: A database must support high-level insertion, updation, and deletion. This must not be limited to a single row, that is, it must also support union, intersection and minus operations to yield sets of data records

**Rule 8: Physical data independence:** Changes to the physical level (how the data is stored, whether in arrays or linked lists etc.) must not require a change to an application based on the structure.

**Rule 9: Logical data independence**: Changes to the logical level (tables, columns, rows, and so on) must not require a change to an application based on the structure.

**Rule 10: Integrity independence**: Integrity constraints must be specified separately from application programs and stored in the catalog. It must be possible to change such constraints as and when appropriate without unnecessarily affecting existing applications.

**Rule 11: Distribution independence**: The distribution of portions of the database to various locations should be invisible to users of the



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and better performance

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	database. Existing applications should continue to operate	
	successfully: when a distributed version of the DBMS is first	
	introduced; and when existing distributed data are redistributed	
	around the system.	
	Rule 12: The non subversion rule: If the system provides a low	
	level (record-at-a-time) interface, then that interface cannot be used to	
	subvert the system, for example, bypassing a relational security or	
	integrity constraint	
(e)	Explain distributed database system with example.	<b>4M</b>
Ans.	A distributed database is a database that consists of two or more files	
	located in different sites either on the same network or on entirely different networks.	
	Portions of the database are stored in multiple physical locations and	
	processing is distributed among multiple database nodes.	Explana
	With distributed databases, data is physically stored across multiple	tion 3M
	sites and independently managed.	
	The processors on each site are connected by a network, and they	
	don't have any multiprocessing configuration.	
	Distributed databases can be homogenous or heterogeneous.	Example
	In a homogenous distributed database system, all the physical	1M
	locations have the same underlying hardware and run the same	
	operating systems and database applications.	
	In a heterogeneous distributed database, the hardware, operating	
	systems or database applications may be different at each location.	
	Advantage of Distributed databases:	
	<b>Better Response</b> – If data is distributed in an efficient manner, then	
	user requests can be met from local data itself, thus providing faster	

More Reliable - When the data and DBMS software are distributed over several sites one site may fail while other sites continue to

Easier Expansion - : Expansion can be easily achieved by adding

**Improved Performance** -These systems provide greater efficiency

Resource Sharing -Since data is distributed, a group of users can

Though there are many distributed databases to choose from, some

operate, which makes database more reliable

easily share and use data of different sites

processing and storage power to the existing network.





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		examples of distributed databases include Apache Ignite,	
		Apache Cassandra, Apache HBase, Couchbase Server, Amazon SimpleDB, Clusterpoint, and FoundationDB	
5.		Attempt any TWO:	12
	<b>(a)</b>	Consider following realtion	6M
		student (Roll_No, name, class, total_marks, percentage, Grade).	
	Ans.	Find appropriate dependencies and normalize upto 3NF. Functional Dependencies:	
	Alls.	Roll_no→ name	Functio
		Roll_no→ class	nal
		total_marks→ percentage	depende
		percentage → Grade	ncy 2M
		1NF: Student(Roll_no,name.class,total_marks,percentage,Grade)	
		<b>2NF:</b> To convert It into 2NF, We have to decompose the given table into two tables with fully functional dependencies and establishing a referential integrity constraint relationship among the two tables.	2NF 2M
		Student(Roll_No, name, class)	
		Marks(Roll_No, total_marks, Percentage, Grade)	
		<b>3NF:</b> To convert the above tables in 3NF, We have to decompose them in three tables satisfying the transitive dependencies property	3NF 2M
		Student(Roll_No, name, class )	
		Marks(Roll_No, total_marks, percentage)	
		Grade (percentage, Grade)	
	(b)	Identify entities and their relationship in terms of tables for railway reservation system.  (Note: Any other entity or relationship shall be considered)	6M
	Ans.	List of Entity Types:	
		Sr. Entity Attributes	
		1 User Email_Id,Password,Fullname,Gender,Age,	
		Mobile,City,State	





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	2	Passenge	er Pi	NR,Pass	enger_Name,Age,Gender,Re	eserva	
					s,Booked_By		
	3	Train			Train_Name,Train_Type,Av	ail_D	
				/s,Seat_			Identify
	4	Route			ist,Stop_Number,Arrival_Ti	me,D	relevant
				oart_Tim			entities
	5	Station			l,Station_Name		<i>3M</i>
	6	Train_st			e,Booked_Seat1,Waiting_Sea	at1,	
				vail_Sea			
					Seat2, Waiting_Seat2,	1 .2	
					at2,Booked_Seat3,Waiting_S	seat3,	
			A	vail_Sea	11.5		
	List	of Relatio	nship				
		Sr.	Relation	1 Туре	Entity Types Involved	]	
		No					
		1	Enquires	<b>A</b>	User, Train		71
		2	Consist_	of	Station, Route		Identify
		3	Has	Y	Train, Train_status		relevant
		4	checks	Y	User, Train_status		relations
		5	Has		Train,Route		hip3M
		6	Starts_from	om/en	Train, Station		
			ds_on				
		7	Assigns		User,Passenger		
(c)	funct (i) L	ional dep ist all ke	endencies y for R.	s {CE —	$A, B, C, D, E)$ with the form $A, B, C \rightarrow B, C \rightarrow A$ .	ollowing	6M
Ans.							
	Step1		ributes tha	at are ne	ither on the LHS nor on RHS	S	
		None	••		1 1110		<b>.</b>
	Step2		attributes	that are	only on RHS		Listing Key 3M
	Stan	A ,B • Find the	attributes	s that are	e only on LHS.		Ney SIVI
	Biep	C, E	aunoutes	s mat alt	only on Lins.		
	Sten4	,	ne the attri	butes on	step 1 and 3		
	~ vcP						<u> </u>





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		- C E	
		The attributes C and E will belong to candidate key, but to find others	
		we need to calculate closure of CE	
		Step5: Closure finding:	
		In our case, because with CE we get D and from D we get B and from	
		C we get A	Identific
		So we have only one candidate key that is CE	ation of
		The relation is in 1NF as it does not have any composite as well as	normal form
		multivalued attribute.	3M
		But it is not in 2NF as the statement says that	
		1) It should be in 1NF	
		2) All non-key attributes are fully functionally dependent on primary	
		key	
		In our case rule 2) is violated by C→A	
		Thus given relation is best suited for INF only.	
6		Attempt any TWO:	12
	(a)	Consider the following schema	<b>6M</b>
		student (R_No, Name, DOB, Percentage, D_No).	
		Write procedure to manipulate given database by adding,	
		modifying and deleting records.	
	Ans.	Consider given Schema	
		Student(R_No,Name,DOB,Percentage,D_No)	
		For adding records in table:	
		We use Insert into command for adding/inserting data into Student	
		table.	
		Syntax for adding the values in the table is as follows:	Adding
		SQL> Insert into  values (value1, value2, value3);	procedu
		Ex:	re 2M
		SQL>insert into Student values(1,'Ram','12-Jan-1990',88,10)	
		OR	
		Ex:	
		SQL>Insert into Student	
		values(&R_No,'&Name','&DOB',&Percentage,&D_No);	Modifyi
		For modifying records in table	ng
		We use update command for modifying data of Employee table.	procedu
		The syntax of update command is:	re 2M
		Updateset	





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	<pre><columnname>=<expression>,<columnname>=<expression>; Ex: SQL&gt;update Student set DOB='22-feb-1995' where R_No=3;  For deleting records from table: We use delete command for deleting data of Employee table. Syntax:-</expression></columnname></expression></columnname></pre>	Deleting procedu re 2M
(b)	Delete from  where <condition>;  Ex:  SQL&gt;delete from Student where R_No=2;  Draw the enhanced E-R diagram for College Management System and show strong entity set, weak entity set, super class and sub-class</condition>	6M
	and sub class. (Note: Any relevant diagram shall be considered)  Super Class  Super	Correct Use Of symbols 2M Represe ntation of strong entity IM Represe ntation of weak entity IM Represe ntation of super class IM Represe ntation of super





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(	c) Consider the following schemas:	6M
	(i) Dept (Dept_No, DName, LOC)	
	(ii) Emp (Emp_No, Ename, Job, Sal, Dept_No) Draw and explain parent child relationship for above schemas	
	and apply referential integrity constraint.	
A	rs. Parent child Relationship	
	Parent Table: Dept	
	Dept No DName LOC	
	Primary Key	Diagram
		2M
	1:N Relationship	
	Child Table: Emp	
	Emp_No Ename Job Sal Dept_No	
	Foreign Key	
	D. C. and C. Lindson, Mr.	
	Referential integrity constraint:  1. It is used to establish the parent shild relation between two tables	
	• It is used to establish the parent child relation between two tables having common column.	
	Value of foreign key is derived from primary key.	Explana
	We should define the column in the parent table as a primary key	tion 1M
	and same column in the child table as a foreign key referring to	
	the corresponding parent key	
	Dept (Dept_No, DName, LOC)	
	Emp(Emp_No,Ename,Job,Sal,Dept_No)	
	In table Dept, Dept_No is a primary key containing unique values	
	for deptnos.	
	To set the relationship between these two tables, we can define	
	Emp.Dept_No as a foreign key as	
	1. Constantable Dant	
	1. Create table Dept	Primary
	(   Dept_No number(5) constraint Dept_Dept_No_pk primary key,	key
	DName varchar2(20),	creation
	LOC char(10)	1½M
	);	





(Autonomous)

(ISO/IEC - 27001 - 2005 Certified)

<b>Subject: Principles of Database</b>	Subject Code:	22321

Ename varchar2(25), Job char(10), sal number(10,2) Dept_No number(5) constraint Emp_Dept_No_fk references Dept(Dept_No),  Dept_No),  Mey creation 1½M
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