SAIVA BHANU KSHATRIYA COLLEGE



(Aruppukottai Nadargal Uravinmurai Pothu Abi Viruthi Trustuku Pathiyapattathu)

ARUPPUKOTTAI QUESTION BANK

Name of the Department :	Computer Science	UG/PG:	UG		
Semester (UG - III & V; PG - III):	UG- V	Subject Code:	SCSJC51		
Name of the Subject :	Relational Database Management System				

Section A (Multiple Choice Questions)

Section	n A (Muluple Choic	e Questions)			
IInit I	(Overview of Detaba	aa Swatom P. Int	naduation to Dat	ahasa D	agian)
	(Overview of Databa A description of data is	-			esign)
1.	(a) Record		(c) Schema		(d) DBMS
2	A DBMS enables user	* /			` /
۷.	(a) DCL	(b) DDL		inough a.	
3.					(d) ICL
٥.		(b) Ellipse			amond box
1	Architecture of a datal				iniona box
→.	(a) Physical	(h) Concentual	(c) View		(d) Logical
5	Anis describe			•	(d) Logical
٥.	(a) Network			y set	(d) Event
	: (The Relational Mo		_		
6.					relation is a unique tuples.
_	(a) Primary key	· '	` '	. ,	t null
7.	Key to represent relati				
	(a) Primary key				
8.	A constraint is				
	(a) Integrity			ain ((d) Network
9.	The number of column				
	(a) Degree	(b) Tuple	(c) Relat	tion ((d) Record
10.	In the relational mode			_	
	(a) Number of constra	int (b) Number of	fattributes (c) N	Number o	of tables (d) Number of tuples
IInit II	I' (SOI Quarias Car	astroints Triggo	•)		
	I: (SQL Queries, Con				
11.	Count function in SQI			(4) D:«	timat values
10	(a) Values (b) Gr	oups (c) Col	lumns	(a) Disi	unct values
12.	To remove a relation f				
12	(a) Delete A database that has a s		(c) Remove		
13.	(a) Active database (
1.4	Which of the followin	,	* /	ibase ((d) Action
14.		g can initiate a trig (b) Update		(d) A11 o	f the above
15	Theoperator all	· / •	` '	` '	
13.	-				
	(a) Selection	(b) projection	(c) Pack	age ((d) Domain
Unit IV	√: (Schema Refineme	nt Database Desi	gn & Normal Fo	orms)	
	Fifth normal forms is		_		
10.	a) (a) FD		oin dependency	(d) doma	nin key
17.	Dependency preservat			\.,	J
- · ·	(a) BCNF	(b) 3 NF	(c) 2 NF	7 ((d) 4NF
18.	A relation is in				
- 3.		(b) 3 NF	•	•	

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19.	1S a too	i that allows us i	o eliminate.	redundancy.			
	(a) Decomposit	tion (b) Concur	rency (c)) Recovery	(d) DQL		
20.	A relation sche	ma is in first nor	mal form if	the all the at	tributes are	e	
	(a) Multiple	(b) Der	rived	(c) Co	nposite	(d	l) Atomic
Unit V	: (Overview of	Transaction M	anagement	t)			
21.	A is a sm	all book keeping	g object asso	ociated with a	a database	object.	
	(a) Lock	(b) Tra	nsaction	(c) Cor	ncurrency	(d	l) Recovery
22.	Thecomr	nand gives user	privileges to	base tables	and views.		
	(a) Grant	(b) Rev	voke (c)	Select (d)	Modify		
23.	is a well-	known example	of public ke	ey encryption	l .		
	(a) DES	(b) RSA	(c) AES	(d) AR	S		
24.	Exclusive mode	e refers to as	operati	on.			
		(b) Wr			d &write	(d) All t	he above
25.		ure that once a tr	-				
	do not get lost,	even if there is s	system failu	re.		•	
	•	(b) Durability	•		ncurrency		

Section B (7 mark Questions)

Unit I: (Overview of Database System & Introduction to Database Design)

- 26. Discuss Drawback of file system.
- 27. Discuss Advantages of DBMS.
- 28. Explain Additional features of ER model with examples.
- 29. Discuss Level of abstraction in a DBMS.
- 30. Discuss Role of database administrator (DBA).

Unit II: (The Relational Model & Relational Algebra and Calculus)

- 31. Discuss specifying key constraints in SQL with examples.
- 32. How can create, modify and query tables using SQL.
- 33. Discuss Relational calculus with query examples.
- 34. Discuss Views and updated on views with query examples.
- 35. Explain Enforcing integrity constraints in SQL with examples.

Unit III: (SQL Queries, Constraints, Trigger)

- 36. What are the Aggregate operators in SQL? Explain them with examples.
- 37. Discuss outer joins and Null values in SQL with examples.
- 38. Explain Intersect, Union, Except in SQL with examples.
- 39. Discuss Complex integrity constraints in SQL with examples.
- 40. Discuss the basic form of SQL query with examples.

Unit IV: (Schema Refinement Database Design & Normal Forms)

- 41. Discuss Schema refinement in database design with query examples.
- 42. Discuss properties of decomposition with suitable illustrations.
- 43. Discuss BCNF normal forms with suitable illustrations.
- 44. Discuss Normalization concept with suitable illustrations.
- 45. Explain Functional and Multi-valued dependency rules with examples.

Unit V: (Overview of Transaction Management)

46. Discuss ACID properties with examples.

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- 47. Explain Transaction support in SQL with examples.
- 48. Discuss concurrent execution of transaction with examples.
- 49. Explain security for internet application with examples.
- 50. Discuss Additional issue of related security with examples.

Section C (10 mark Questions)

Unit I: (Overview of Database System & Introduction to Database Design)

- 51. Discuss structure (Architecture) of DBMS and its advantages.
- 52. Explain conceptual design with ER model with examples.

Unit II: (The Relational Model & Relational Algebra and Calculus)

- 53. Discuss Relational algebra with query examples.
- 54. Explain logical database design of ER to relational query with examples.

Unit III: (SQL Queries, Constraints, Trigger)

- 55. Discuss in detail, designing active database trigger with examples.
- 56. Discuss nested query with query examples.

Unit IV: (Schema Refinement Database Design & Normal Forms)

- 57. Discuss third, fourth, fifth normal forms in details.
- 58. Discuss Functional, join and multivalued dependencies with examples.

Unit V: (Overview of Transaction Management)

- 59. Discuss Discretionary and mandatory access control with examples.
- 60. Explain lock based concurrency control with examples.