QUESTION 2015

	Gro	up – A		
	(Multiple Choic	e Type Questions)		
Choose the correct alt	ernatives for any ten of the	following:		
Referential integrity is	directly related to			
a) relational key	√b) foreign key	c) primary key	d) candidate key	
Which level of Abstra	ction describes how data	are stored in the database	Lõyda ele sekonsensi, viin	
√a) Physical level	b) View level	가는 이렇게 하는 사람들이 들어가 되었다면 하는 것이 아무리하는 경험을 받았다고 하는 경기에 가지를 하면 없었다. 그렇지 않는 그래요?		
	~) Alem level	c) Abstraction level	d) Logical level	
) Which of the followin	g is true?		1	
√a) A relation in B	CNF is always in TAIE	THE VIEW SAME.	Harding administration	
✓a) A relation in BCNF is always in 3NF c) BCNF and 3NF are same		b) A relation in 3NF is always in BCNF		
0/2011 dild 0111 1	are same	d) A relation in BCNF	d) A relation in BCNF is not in 3NF	
	Jean Libertonia	2007		
i) Consider a schema	R(A, B, C, D) and	functional dependencies	$A \rightarrow B$ and $C \rightarrow D$	
hen the decomposing	$R_1(A, B)$ and $R_2(C,$	D) is		
	reserving but not lossless			
h) dependency pro	serving and lossless join	Join	To all the transfer from the	
c) lossless join but	not dependency preservi		And the property and the contracts.	
d) lossless join	not dependency preservi		and the electric parts	
e de la concession	and the second section of			
To select a tuple from	n a relational database tal	ole the symbol used in role	ifional alástus:	
) To select a tuple from a relational database table a) ρ (Row) \checkmark b) σ (Sigma)		-> TI (D :: .:		
-, p (1.011)	b) o (olgina)	c) II (Floject)	d) none of these	
O Part of Barrier	A THE RESERVE OF	A ETTOMAN ANT SO	Children and h	
R = (A, B, C, D)), $F = (AB \rightarrow C, C \rightarrow$	D). Find candidate key	the air sentena	
✓a) AB	b) ABC	c) ABCD	d) none of these	
		neta.	d) none of these	
ii) Which is the SQL co	ommand to remove rows t	rom a table?		
a) REMOVE	√h) DELETE	c) TRUNCATE	which the pulmeting."	

POPULAR PUBLICATIONS

7. a) Consider the following schema:

User(card_no, bname, baddress)

Book(acc_no, yr_pub, title)

Borrow(acc_no, doi, card_no)

viii) The first phase of query processing is:	counts, and playing her upon	a Fig. see Cont.
✓a) decomposition b) restructuring	c) analysis	d) none of these
ix) The distinguishable parts of a record are called	ed.	
	√c) Fields	d) Database
x) Normalization of database is needed to:		
a) make data more intelligible to humans	b) remove error in dat	ta entry
✓ c) eliminate redundant data	d) all of these	
	part	
	oup – B	,
	r Type Questions)	
2. Compute the closure of the following set F o		or relation schema:
$R = (A, B, C, D, E), F = \{A \rightarrow BC, CD - BC, CD $	$\Rightarrow E, B \rightarrow D, E \rightarrow A$	
List the candidate keys for R		
See Topic: FUNCTIONAL DEPENDENCIES AN	D NORMALIZATION, Long	g Answer Type Question
No. 6.	M. manage and an all states	and the second s
3. Explain the query optimization technique with	relevant examples	LONG THE STATE OF THE STATE
See Topic: QUERY OPTIMIZATIOM, Long Ans		he a tele sign .
depth of the second of the sec	Make Bu	
4. What is lossless decomposition? Consider t	the relation $R_{l}(A,B,C)$	and $R_2(C,D)$. Show
that this decomposition is dependency preserving	g or not.	
1st part: See Topic: FUNCTIONAL DEPENDENCE	CIES AND NORMALIZATI	ON, Short Answer Type
Question No. 9.		
2 nd part: Question is not clear.		The state of the s
5. How does BCNF differ from 3NF? Why is it co	onsidered stronger than 3NF	
See Topic: FUNCTIONAL DEPENDENCIES		
Question No. 14.		test of the sector type
	and the second s	
6. Discuss the different database anomalies.		WHEN I
See Topic: FUNCTIONAL DEPENDENCIES	AND NORMALIZATION	, Short Answer Typ
Question No. 15.		
보고 하는 보고 1. 1개월 - 전시 1일 - 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	oup – C r Type Questions)	
- (Luing Allswei	The Anestrons)	and the contract of the second

Scanned by CamScanner

Where acc_no is account number, yr_pub is year of publication, bname is borrower name, baddress is borrower address, doi is date of issue.

Perform the following queries on the table.(In SQL)

- (i) Find the account number whose year of publication is 1985.
- (ii) Display the title of the book which has been borrowed by "Vijoy"
- (iii) Find the borrower name who lives in same city as "Vijoy"
- (iv) find the borrower name and address who should issue book on 14-05-1988
- (v) Find the acc_no of Book whose year of publication is 1992 and title is "Compiler Design"
- b) State Armstrong's Axioms.
- a) See Topic: SQL, Long Answer Type Question No. 5.
- b) See Topic: FUNCTIONAL DEPENDENCIES AND NORMALIZATION, Long Answer Type Question No. 1.
- 8. a) What is index? Define clustering indices, hash indices, dense indices and Primary-secondary index.
- b) What is data abstraction?
- c) Define the concept of aggregation, generalization, and specialization and attribute inheritance.
- a) See Topic: STORAGE STRATEGIES, Long Answer Type Question No. 4.
- b) See Topic: INTRODUCTION, Short Answer Type Question No. 12.
- c) See Topic: INTRODUCTION, Short Answer Type Question No. 11.
- 9. What do you mean by Super key, Candidate key and Primary key? Take a single example of a database and explain the relationship between primary key, candidate key, foreign key in the same example.

See Topic: RELATIONAL MODEL, Long Answer Type Question No. 6.

- 10. a) Explain with two examples why the set $\{\sigma, \pi, \cup, \neg, X\}$ is called the complete set of relational algebra operation.
- b) Construct an E-R diagram for a car-insurance company whose customers own one or more cars each. Each car has associated with it zero to any number or recorded accidents. State all your assumptions.
- a) See Topic: RELATIONAL MODEL, Long Answer Type Question No. 5.
- b) See Topic: ENTITY-RELATIONSHIP MODEL, Long Answer Type Question No. 5.
- 11. Write short notes on any three of the following:
 - a) Role of DBA in database design.
 - b) Three-level architecture of DBMS.
 - c) Query language
 - d) B+ tree
 - e) Logical and physical data independence.
- a) See Topic: INTRODUCTION, Long Answer Type Question No. 6(c).
- b) See Topic: INTRODUCTION, Long Answer Type Question No. 6(e).

B DBMS-121

POPULAR PUBLICATIONS

c) See Topic: SQL, Long Answer Type Question No. 8.

d) See Topic: STORAGE STRATEGIES, Long Answer Type Question No. 5(d).

e) See Topic: INTRODUCTION, Long Answer Type Question No. 6(d).