Question Bank

DB2



Cognizant Academy



Couse Name DB2

Test Type <Pre-Test/ Post-Test>

Module No.	Module Name	Topics Covered
		Database & RDBMS concepts
		DB2 Overview
		DB2 objects and Data types
1	INTRODUCTION TO DB2	Introduction to SQL
		Tools - QMF and SPUFI
		SQL - DDL
		SQL - DCL
		SQL - DML (Simple Select)
		Functions
	QUERYING DATABASE AND OTHER DB2 OBJECTS	Sorting & Grouping records
2		Joins & Subqueries
		Correlated Subquery & Union
		SQL - DML (Update & Delete)
		Indexes
		View, Alias & Synonyms
		Coding the Application
	APPLICATION PROGRAMMING	Pre-compilation
		Compiling & Linking
3		Binding
		Execution
		Application Development Guidelines
		DB2 Utilities
		DB2 Security, Catalog Tables and Optimizer

Multiple Choice Questions

Q. No	Question
1	Characteristics of a Relational Database
3	Column used to uniquely identify a Tuple Entity-Relationship model is a logical representation of The row that contains an entry for each attribute is called
5	The value of Null is
6	DB2 is a
7	A relational database is perceived
8	Advantages of Database systems over File management systems are
9	Characteristics of Network Database
	The database model which can be visualized as upside down tree structure
	Hierarchical Database handles
12	Column or combination of columns which has unique values but not selected as primary key and is not part of primary key is
	Column of a table used to establish relationship with other table and present itself in all the tables is
14	How many normalization are possible?

15 Normalization is done to remove
Every foreign key in the first table must either match a primary key in the second table or wholly null is 16 called
17 Rule that states no column that is part of primary key can have a null value is
18 The integrity which specifies information allowed in a column is
19 Pre-processor for the host programming language
20 Provides necessary controls for managing concurrent access to data
21 The major components of the complex DB2 internal structure are
22 Which is a collection of direct access volumes, all of the same device type
The Subsystem which controls connections to other MVS subsystems and handles system start-up, 23 shutdown and operator communication is
24 The sub components which does the definition, retrieval and update of DB2 data
25 Part of MVS subsystem and general purpose lock manager that aids in Data integrity
26 IRLM stands for
27 When the Program executes first time the control goes to the
This component does all the operations such as search, retrieval, update index maintenance and Physical database
29 Component responsible for the physical transfer of data between external storage and Virtual Memory
30 Catalogue consists of regular tables which is

31	The database directory is same as Catalogue which is
32	The basic DB2 objects are
33	Database is a collection of
34	Which of the following should be defined for each database?
35	A database can occupy
36	Logical address space on secondary storage to hold one or more tables is called as
37	One of the following option is not a type of tablespace
	la Cincala table again a gana and base gana facia
38	In Simple table space a page can have rows from
39	A Simple tablespace
40	In Segmented tablespace, each segment contains
41	Segmented tablespace
	Doubible and Table are and making with the self-self-self-self-self-self-self-self-
42	Partitioned Table spaces primarily used for

	1
43	Which of the following is LOCKSIZE parameters?
44	Which of the following is not a Tablespace Parameter?
45	The logical derivation of a table from other table/tables is
46	Which is the Unit of I/O operation
47	What is Query Management Facility (QMF) ?
48	Which one supports the online execution of SQL statements from a TSO terminal
	SQL is composed of
	Which of the following is a example of DDL
	Which of the following is a example of DCL
52	Which of the following is a example of DML
53	Foreign key constraints are specified using
54	Using ALTER we can change the specifications of
55	Using ALTER command we
56	Which commands grants and Revokes the Table, Plan, Database privileges
57	What happens when a column is omitted in the INSERT statement and the Column is not NULL?
58	Single row select is possible using which one of the following in the WHERE clause
59	Multi row select is possible using which one of the following in the WHERE clause
60	Which of the Clauses can be used in conjunction with WHERE clause?
61	"SELECT * FROM EMP WHERE EMPNO BETWEEN '150' AND '200'". Above query selects employees with EMPNO

	"SELECT * FROM EMP WHERE EMPNO IN ('150' , '200')". Above query selects employees with
	EMPNO
63	Which of the following special characters are used along with LIKE clause
64	IS NULL clause checks
04	10 11022 010000 010000
65	Which of the following Function type is available in DB2
	Which of the following is an example of Aggregate function
67	Which of the following is an example of Scalar function
68	Duplicates are removed from the result set using
	Daphoates are removed from the result set doing
69	Sorting the records are done using
70	Which one of the following is true about ORDER BY?
71	Grouping the records can be done by
72	Eliminating the groups from the Result set is done by using
73	Which of the following is true?
	<u> </u>

84	Which of the following is true about UNION?
85	UNION can be replaced by following logical operator if the selects are from only one table
0.0	For collecting data from multiples tables the following, is used
- 00	For selecting data from multiples tables the following is used
87	It combines 2 sets of rows into a single set composed of all the rows in either or both of original sets without duplicates
— ·	Without duphoates
88	Which one of the following is the Index parameters?
89	This command is used to give another name for the table, which is private to the uses who created it
90	It is the local name provided for the remote tables.
91	In Dynamic SQL
	Host variables is a
	Host variables are used in embedded SQL prefixed wih Which of the following is used to produce Host variables
94	which of the following is used to produce flost variables
95	Host variables can be used in
96	Host variables can be used in
0.7	DCLGEN can be issued for
97	DOLGEN CAIT DE ISSUEU IOI

98	The output of DCLGEN command contains
۵۵ ا	DCLGEN output is added to the COBOL program using
99	DOLGEN output is added to the COBOL program using
100	SQLCA is
101	SQLCA is updated
102	SQLCODE = 0 is
103	SQLCODE = 100 is
104	SQLCODE > 0 is
104	OQEOODE 7 0 13
105	
105	SQLCODE < 0 is
106	SQLCA contains which of the following fields?
107	Indicator variables are used for
400	Indicator variables are defined in Warking storage as
108	Indicator variables are defined in Working storage as

	ndicator variable < 0 indicates
110 F	Failure to code or check null values gives SQLCODE
1110	Cursors are used for
112 V	Which one of the following command is used to define a cursor
113 1	n cobol, Defining a cursor is done generally in
	, <u> </u>
	n cobol, opening a cursor is done in
	Following command is used to return data from result table one row at a time and assigns the value to Host variable
1131	lost variable
116 T	This command releases all the resources used by the cursor
117 T	The cursor should be defined with which of the following clause for Updation?
1181	Jpdate cursors cannot be used if Select statement contains
1100	Speake cursors cannot be used it select statement contains
119 F	Following command registers the current unit of work
	The SQL statements and DB2 related INCLUDE members are commented out and it is replaced by
1200	CALL statement in
121	PureMe is প্রকারপার্কানেrbetween the Timestamp in modified source code and DBRM, it gives runtime
122 e	error of
123 V	Which one of the following is the input to Compilation step?
1201	which one of the following to the input to complication ctop.
124 T	The output of Binding step is
405	Nigelian dans which are of the fallowing
125 E	Binding does which one of the following

126	When Binding a DBRM to a Package, Plan contains
120	Which binding a bortivi to a r dokage, r lan contains
127	Package is
128	Which of the following is a characteristic of a Package
	ÿ y
129	The binding parameter Isolation specifies
	•
130	Which of the following is a type of Isolation level
131	The Page lock is released as soon as another page is accessed in which of the following Isolation?
132	All page locks are released only when COMMIT is executed in which of following Isolation
	Retrieved row or page is locked until the end of Unit of work. No other program can modify the data
133	but new rows can be inserted. This type of locking is called
134	These parameters specifies when to Acquire and Release Tablespace locks
135	Which of the following Acquire and Release parameter is most preferred for DB2 batch program?
,	NALIDATE appropriate and form to the greath of the little
	VALIDATE parameter refers to the method of checking
137	Which one of the following is NOT a Binding parameter?
	For execution of a DD2 Cohol program we want
138	For execution of a DB2 Cobol program we need
400	Which are of the following is a DDC Hillity C
139	Which one of the following is a DB2 Utility?

The Integrity of DB2 data structures are checked using which of the DB2 utility?
141 Check utility checks the
142 This utility is used to create an imagecopy for the complete tablespace or a partition of tablespace
142 This dillity is used to create an imagecopy for the complete tablespace of a partition of tablespace
Every successful execution of COPY utility places atlease one row that indicates the status of Image
143 copy, in which table?
144 The Utility to restore the Db2 Tablespaces and indexes to a specific instance is
145 The bulk inserts into DB2 table are accomplished using this Utility.
146 If a job terminates in any phase other than UTILINIT,
This utility is used to collect statistical information about DB2 tables, tablespaces, partitions, indexes
147 and columns
Using this utility, we can obtain the details of the access path chosen by Db2 optimizer for SQL
148 statements
When EXPLAIN is requested, the access path that DB2 chooses are put in coded format into the
149 following table
450 EVDLAIN provides information about
150 EXPLAIN provides information about
151 Locking services are provided by which of the MVS subsystem
152 Db2 contains how many catalogued tables?
102 DDZ GOTTGITION THATTY GATGIOGUCG TADICS:

153	Optimizer
	10 p
154	Optimizer evaluates which of the following factors?
	Optimizer gets the information pertaining to the state of tables that will be accessed by SQL
155	statements from

Option 1	Option 2	Option 3	Option 4	Correct Answer
It supports many to many relationshi ps	allowed to have more		A single table acts as a root	option 3
Composite Key	Alternate Key	Primary Key	Foreign Key	option 3
Tables	Data	Records	Entities	option 1
Tuple	Domain	Entity	Relation	option 1
Zero	Unknown	Space	None of the above	option 2
Relational database	Hierarchic al	Network	None of the above	option 1
As a set of tables	Group of records	Collection of data	None of the above	option 4
Data redundanc y	Single View	Concurren cy	Data dependen cy	option 1 & option option 3
Child tables were allowed to have more than one parent	relationshi ps	Can be visualized an upside down tree of data	Child may only have one parent but a parent can have multiple children	option 1 & option 2
Network	Hierarchic al	Relational	None of the above	option 2
р	M-1 Relationsh ip	ip	ip	option 1
Foreign Key	Composite Key	Unique Key	Alternate Key	option 4
Composite Key		Foreign Key	Alternate Key	option 3
3	5	4	2	option 2

Partial functional dependen cies	Transitive dependen cies	Multi valued dependen cies	All of the above	option 4
Entity integrity	Referential Integrity	Domain integrity	None of the above	option 2
Entity integrity	Referential Integrity	Domain integrity	None of the above	option 1
Entity integrity	Referential Integrity	Domain integrity	None of the above	option 3
Data manager	Buffer manager	Precompil er	Bind	option 3
System service.	Locking service	Database service	Distributed data facility	option 2
System services	Database services	Buffer manager	Data manager	option 1 & option 2
Tablespac e	Database services	Records	Storage Group	option 4
Database services	Locking service	System services	Distributed data facility	option 3
Locking service	Database services	System services	Distributed data facility	option 2
Runtime supervisor	Database manager	Buffer manager	IRLM	option 4
IMS Resource Lock Manager	Inter Resource Location Manager	Inter resource Locking Manager	None of the above	option 1
Runtime supervisor	Buffer Manager	File manager	Data manager	option 1
Runtime supervisor	Data manager	File manager	Buffer Manager	option 2
DiskMana ger	Buffer manager	File manager	Runtime supervisor	option 2
accessible by SQL statement s	accessible by application program	not accessible by SQL statement s	None of the above	option 1

	not accessible by SQL statement s	used for internal purpose only	None of the above	option 1 & option 3
STOGRO UP, DATABAS E, TABLESP ACES	RECORD S, STOGRO UP, DATABAS E	STOGRO UP, RECORD S, TABLESP ACES	None of the above	option 1
STOGRO UP	Index	Tables	Entities	option 3
STOGRO UP, TABLESP ACES	VIEW, TABLESP ACES	BUFFERP OOL, TABLESP ACES	STOGRO UP, BUFFERP OOL	option 4
only one disk space	More than one disk space but disk spaces should be in same STOGRO UP	space and disk spaces need not be in same	None of the above	option 3
Indexspac		Tablespac	None of	
е	Dataspace	е	the above	option 3
Multiple	Segmente d	Simple	Partitioned	option 1
1 table only	2 table only	More than 1 table	None of the above	option 3
Decreases the Concurren cy	the	Increases Redundan cy	Decreases redundanc y	option 1
Rows from only 1 table	Rows from only 2 tables	Rows from many tables	None of the above	option 1
Decreases the Concurren cy	Increases Redundan cy	Increases the Concurren cy	Decreases redundanc y	option 3
Small tables	Very large tables		None of the above	option 2

TABLESP ACE ANY Above option 4 LOCKSIZ E PCTFREE ERASE INDEX option 4 Records Active set View the above option 3 Record Page Byte the above option 2 It allows end users to enter SQL queries to enter s to check SQL statement MVS- and SVM- based table query tool details this query tool details this query tool details this query tool GRANT ALTER REVOKE CREATE A PCL ACTION TO CREATE GRANT DELETE DROP option 2 All of the above option 4 None of the above option 3 None of the above option 4 None of the above option 2 All of the above option 3 None of the above option 2
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Privilege & Grant & Grant & None of Privilege & Bryoke Prop. the shows antion 2
Revoke Revoke Drop the above option 2
INSERT Zero is Space is None of
fails inserted inserted the above option 1
Foreign Alternate Primary Option 1 & option 2 & option
Key Key 3 3
Foreign Alternate Primary Option 1 &
Key Key 2 option 1
BETWEE All of the
BETWEE All of the N IS NULL IN above option 4
BETWEE All of the

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to 200		the above	optionption
*	%	_	4
NULL &	NULL &	All of the	
SPACES	ZERO	above	option 1
		All of the	
Scalar	Arithmetic	above	option 4
		TIMESTA	
DECIMAL	HEX	MP	option 1
LENGTH	SUM	MIN	option 2
		None of	
UNIQUE	DISTINCT		option 3
GROUP		ARRANG	·
BY	SORT BY	E BY	option 1
Only Column number in the Select column list can be specified along with ORDER BY	g	the above	option 4
GROUP BY	SEGREG ATE BY	ARRANG E BY	option 2
WITH	HAVING	None of	
clause	clause	the above	option 3
HAVING is used on aggregate d data		GROUP BY cannot appear without WHERE clause	option 2
	SPACES Scalar DECIMAL LENGTH UNIQUE GROUP BY Only Column number in the Select column list can be specified along with ORDER BY GROUP BY WITH clause HAVING is used on aggregate	range 150 range 151 to 200 to 199 * % NULL & SPACES ZERO Scalar Arithmetic DECIMAL HEX LENGTH SUM UNIQUE DISTINCT GROUP BY SORT BY Only Column number in the Select column list can be specified along with ORDER BY GROUP BY SEGREG ATE BY WITH HAVING clause GROUP BY cannot HAVING is appear without aggregate GROUP BY cannot HAVING is appear without aggregate	range 150 range 151 None of the above *

be used if there is no	the column on which grouping is done, is	column apart from	All of the above	option 4
Having is used on aggregate data and Where is used on column	Having is used on column and Where is used on aggregate d data	can be used interchang eably	None of the above	option 1
Inner Join	Outer join	Right Outer Join	All of the above	option 2
Left outer join	Right Outer Join	Inner Join	Full Outer join	option 1
Left outer join	Right Outer Join	Inner Join	Full Outer join	option 2
Left outer join	Right Outer Join	Inner Join	Full Outer join	option 3
Equality operators	Non- equality operators	Comparati ve operators	None of the above	option 4
Non- correlated subquery	Correlated subquery	Option 1 & 2	None of the above	option 1
Non- correlated subquery	Correlated subquery	Option 1 & 2	None of the above	option 2
there is a need to check only the existence of matching criteria	Column value returned by nested query do not matter	Option 1 & 2	None of the above	option 3

The two result set should contain same no. columns	Each column of the first result set must be either same data type as correspon ding column in the second or convertible		All of the above	option 4
			None of	
AND	OR	NOT	the above	option 2
UNION	JOIN	UNION ALL	All of the above	option 4
LINION	UNION	IOIN	None of	antian 1
UNION	ALL	JOIN FREEPAG	the above	option 1
CLUSTER	ERASE	FREEPAG E	above	option 4
SYNONY			None of	Op. 1011
М	ALIAS	VIEWS	the above	option 1
SYNONY M	ALIAS	VIEWS	None of the above	option 2
d before	the application	Statement s can change throughout the program execution	Option 1 & 3	option 4
Columns in Table	Defined in SQL statement s	Working Storage variable	None of the above	option 3 option 2
DCLGEN	QMF	SPUFI	Platinum	option 1
INTO clause of SELECT	in the Column list of SELECT	in the WHERE clause of SELECT	Option 1&3	option 4
input of SET clause of UPDATE	input of VALUES clause of INSERT	INTO clause of FETCH	All of the above	option 4
Single table	Multiple table	Single view	Multiple View	option 1

Host structure	Host variable	SQL DECLARE TABLE' statement	All of the above	option 4
COPY statement	INCLUDE statement	ADD Statement	None of the above	option 2
DB2 Communic ation area		Executabl e SQL	None of the above	option 1
after the execution of program	after each SQL statement execution	after each update statement execution	after each insert statement execution	option 2
Successful execution with warning	Execution was not successful	Successful execution	Data not found	option 3
Successful execution with warning	Execution was not successful	Successful execution	Data not found	option 4
Successful execution with warning	Execution was not successful	Successful execution	Data not found	option 1
Successful execution with warning	Execution was not successful	Successful execution	Data not found	option 2
SQLWAR N	SQLCOD E	SQLERR M	All of the above	option 4
Checking null values	Checking successful completion of SQL statement Alphanum	Checking	Checking how many records deleted Signed	option 1
Numeric variable	eric variable	COMP variable	numeric variable	option 3

Valid	Null value	Spaces		
	is	are	Zero is	
				ti 0
	retrieved	retrieved	retrieved	option 2
-305	-811	-805	-818	option 1
		Column		
Davidaval	Cational		None of	
Row level		level .	None of	
processing	processing	processing	the above	option 2
DECLARE	DEFINE	OPEN	ASSIGN	option 1
	Input-	Working		
Procedure		Storage	File	
		Castian	-	antian 2
division	section	Section	section	option 3
Input-	Working			
Output	Storage	File	Procedure	
section	Section		division	ontion 1
section	Section	section	aivision	option 4
Get	Fetch	Retrieve	Select	option 2
	. 010		00.000	
Close	Release	Deallocate		option 1
Where		For	None of	
current of	Set	update of	the above	option 3
				орион о
ORDER			All of the	
BY	UNION	JOIN	above	option 4
Rollback	Commit	Update	None of the above	option 2
				- 1
Linking	Compilatio		Binding	
Step	n step	ation step	step	option 3
·	·		·	
		.		
	Compilatio		Linking	
ation step	n step	step	Step	option 1
-913	-805	-818	-811	option 3
				1
I	Modified		l	
Object	source		None of	
module	code	DBRM	the above	option 2
	Load	Object	None of	·
n Plan	module	module		ontion 1
II FIAII	module	module	the above	option 1
Checks				
correctnes				
s of table	1			
	Performs			
& Column definitions	Performs authorizati			
definitions			All of the	
	authorizati	Creates application Plan	All of the above	option 4

-				
Access Path	Reference to Physical location of Package	Reference to DBRM	None of the above	option 2
Executabl e by itself	Can be executed if it contains only one version of DBRM	Has to be bound to a Plan before execution	None of the above	option 3
Increases Bind time	Versioning is possible		None of the above	option 2
Mode of Page locking	Mode of creating the application Plan	How to use the DB2 resource	How the rows should be retrieved	option 1
Cursor Stability	Repeatabl e Read	Read Stability	All of the above	option 4
Repeatabl e Read	Read Stability	Cursor Stability	Uncommit ed Read	option 3
Read Stability	Repeatabl e Read	Cursor Stability	Uncommit ed Read	option 2
Read Stability	Repeatabl e Read	Cursor Stability	Uncommit ed Read	option 1
	ACQUIRE AND VALIDATE parameter s	ACTION	None of the above	option 1
USE & DEALLOC ATE	ALLOCAT E & COMMIT	USE & COMMIT	ALLOCAT E & DEALLOC ATE	option 3
Existence of the table	Validity of table AUTHID	DB2 access authorizati on DEGREE	All of the above ACTION	option 4 option 2
Plan & Object module	Plan & Load module	DBRM & Load module	Only load module	option 2
CHECK	RECOVE R	LOAD	All of the above	option 4

	DUNGTAT			
VALIDATE	RUNSTAT S	CHECK	EXPLAIN	option 3
Referential integrity between two tables	Consisten cy of DB2 indexes	Delete invalid rows and copies them to exception table	All of the above	option 4
COPY	LOAD	REORG	RECOVE R	option 1
SYSIBM.S YSPROC EDURES	SYSIBM.S YSCOPY		SYSIBM.S YSUTILITI ES	option 2
RESTORE	REORG	RECOVE R	LOAD	option 3
COPY	LOAD	INSERT	None of the above	option 2
The table space must restored first using RECOVE R utility	The table space needs to be reorganize d	LOAD utility automatic ally takes care of Restoratio n of table space	All of the above	option 1
REORG	RUNSTAT S	RECOVE R	None of the above	option 2
RUNSTAT S	REORG	EXPLAIN	CHECK	option 3
SYSPRO CEDURE S	PLAN_TA BLE	SYSTABL ES	SYSPLAN	option 2
Type of access of particular tables	Order in which tables are joined	Whether SORT is required	All of the above	option 4
Runtime supervisor 43	Database manager 35	IRLM 48	Buffer manager 38	option 3 option 1

optimizes the SQL code	determine s most efficient way to access data	estimates the cost of physically retrieving and writing the data	None of the above	option 2 & option 3
CPU cost	I/O cost	Db2 catalog statistics	All of the above	option 4
Runtime supervisor	Database manager	Db2 catalog	IRLM	option 3

Target Audience : ELT Session : End of Module

Category
Application
Knowledge + Diffic
Comprehension + Di
Comprehension + Av
Others

Topics		ŀ	Snowled	lge				Com	prehen	sion			
	Eas	sy	Ave	rage	Diffi	cult	Eas	у	Aver	age	Diffi	cult	Ea
	Marks	Qs	Marks	Qs	Marks	Qs	Marks	Qs	Marks	Qs	Marks	Qs	Marks
T1	0		1	1	2	1	0		2	1	3	1	0
T2	0		1	1			0		2	1	3	1	0
T3	0		1	1	2	1	0		0		3	1	0
Total			7	'(5)					13((5)			

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Α	pplication	on		Appl				olication			Application			
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Qs	Marks	Qs	Marks	Qs	Marks	Qs	Marks	Qs	Marks	Qs	Marks	Qs	Marks	Qs
	3	1	3	1	0		0		0		0		0	
	3	1	3	1	0		3	1	0		0		3	1
	3	1	3	1	0		0		3	1	0		3	1
	18	(6)		6(2)					6(2)				

		Total		
Diffi	Marks			
Marks	Qs			
0				
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