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Vendor: IBM

Exam Code: A2090-919

Exam Name: Assessment: System Administrator for Informix Server 11.70 Assessment

Version: Demo

Question No : 1

Which sysmaster table can be queried to find the logging status of a database?

- A. sysdb
- B. sysdblog
- C. sysdatabases
- D. sysdblogstatus

Answer: C

Explanation:

Question No : 2

What output is NOT reported by the dbschema utility?

- A. The database logging mode.
- B. The schemas of remote databases.
- C. The table definitions without owner names.
- D. The onspaces commands to re-create your systems' dbspaces.

Answer: A

Explanation:

Question No : 3

Which command line utility displays real time statistics about the instance?

- A. dbinfo
- B. onstat
- C. dbschema
- D. onmachinfo

Answer: B

Explanation:

Question No : 4

Which onstat command will allow the gathering of statistics about the Informix Database Scheduler tasks that are currently running or scheduled to be run?

- A. onstat -g dbc
- B. onstat -g sch
- C. onstat -g adm
- D. onstat -g tsk

Answer: A

Explanation:

Question No : 5

What does the ovbuff field of an onstat -p output show?

- A. The number of times that a buffer was read.
- B. The number of times a buffer was extended.
- C. The number of times that any buffer was overwritten.
- D. The number of times the instance ran out of free buffers.

Answer: D

Explanation:

Question No : 6

Which SQL Administration API command will merge non-contiguous table extents?

- A. shrink
- B. defragment
- C. table repack
- D. merge extents

Answer: B

Explanation:

Question No : 7

By default, the alarm program gets executed for which event(s)?

- A. All events.
- B. Only for events with Severity code 1.
- C. Only for events with Severity code 5.
- D. Only for events with Severity code greater than 1.

Answer: D

Explanation:

Question No : 8

When a SELECT statement is executed which statement is true?

- A. The number and duration of the locks is dependent on the ISOLATION LEVEL.
- B. If COMMITTED READ isolation is in place then the SELECT will never encounter any locking errors.
- C. Within a transaction the database server will place row or page locks on a nonlogging table.
- D. If the SELECT is part of an UPDATE cursor then the database server will place an exclusive lock on the entire dataset.

Answer: A

Explanation:

Question No : 9

For a given procedure name, what is the objective of the SQL query shown below?

```
SELECT data
FROM sysprocbody a, sysprocedures b
WHERE a.procid = b.procid
AND b.procname = ?
AND datakey = 'T'
ORDER BY seqno;
```

- A. The query returns the ordered text form of the specified procedure body.
- B. The query returns the ordered compiled form of the specified procedure body.
- C. The query returns both ordered text and ordered compiled form of the specified procedure body.
- D. The query returns neither the ordered text nor the ordered compiled form of the specified procedure body.

Answer: A

Explanation:

Question No : 10

Which statement about auditing is NOT true?

- A. You can enable auditing row updates for all rows in the table.
- B. You can enable auditing row updates just for a subset of rows in the table.
- C. You can enable auditing row updates for all rows from all tables in the database except for system catalog tables.
- D. You can enable auditing row updates for all rows from all tables in the database and for the system catalog tables.

Answer: B

Explanation:

Question No : 11

How is the DBSSO group determined on a Unix system with role separation?

- A. It is always the group informix.

- B. It is set using the onsecurity command line tool.
- C. It is the group that owns \$INFORMIXDIR/dbssodir.
- D. It is the group specified in the DBSSO onconfig parameter.

Answer: C

Explanation:

Question No : 12

Which role can create, alter, or delete trusted context objects?

- A. DBA
- B. DBSA
- C. DBSSO
- D. DBSECADM

Answer: D

Explanation:

Question No : 13

Which of the following activities does the Secure-Auditing Facility NOT monitor and record?

- A. Specific rows.
- B. Specific users.
- C. Specific tables.
- D. Specific DML operations.

Answer: A

Explanation:

Question No : 14

Which statement about mapped user functionality is true?

- A. Mapped users cannot execute distributed operations.
- B. Mapped users are allowed to run with multiple names.
- C. The DBSA can control the access to tables at a row level using security labels.
- D. The DBSA can grant database server access to externally authenticated users with no local account.

Answer: D

Explanation:

Question No : 15

To enable network encryption, what two steps must the administrator complete? (Choose two.)

- A. Enter the CSM name in the sqlhosts file.
- B. Set the IFX_ENCCSM onconfig parameter to 1.
- C. Define the CSM in the concsm.cfg configuration file.
- D. Enter the CSM name in the onconfig NETTYPE parameter.
- E. Set the environment variable ENCCSMCFG to the name of the CSM.

Answer: A,C

Explanation:

Question No : 16

Which of the following privileges is NOT valid for a table fragment?

- A. ALL
- B. INSERT
- C. UPDATE
- D. CREATE INDEX

Answer: D

Explanation:

Question No : 17

Which statement regarding default roles is true?

- A. An administrator can define a default role to assign only to the PUBLIC group for a particular database.
- B. The privileges associated with a default role takes precedence over the privileges granted to an individual user.
- C. An administrator can define a default role to assign to individual users or to the PUBLIC group for a particular database.
- D. When a user connects to a database, it is necessary to use the SET ROLE DEFAULT statement in order to gain the default role privileges.

Answer: C

Explanation:

Question No : 18

Why do automatic checkpoints cause the database server to trigger more frequent checkpoints?

- A. To avoid LRU flushes.
- B. To ensure the buffer pool is always available.
- C. To ensure the onstat -g ckp report is accurate.
- D. To avoid transaction blocking during checkpoints.

Answer: D

Explanation:

Question No : 19

Which statement about the scope of UPDATE STATISTICS is true?

- A. If the FOR PROCEDURE keywords are included but the name of any SPL routine is not specified, an error will be returned.
- B. If the FOR TABLE keywords are used without specifying the name or synonym of a table, the database will not recalculate distributions for any table in the current database.

C. If the FOR TABLE keywords are specified with a table but without specifying a list of columns, the database server will not recalculate distributions on all of the columns of the specified table.

D. If the FOR PROCEDURE specification, Table and Column Scope, and Resolution clauses are NOT included, then the statistics are updated for every table and SPL routine in the current database.

Answer: D

Explanation:

Question No : 20

Which two corrective actions may be taken if following message is logged in the online message log during a failed attempt to bring an instance online? (Choose two)

18:15:44 Size of resident + virtual segments 100000KB + 60000KB > 150000KB

18:15:44 total allowed by configuration parameter SHMTOTAL

- A. Decrease SHMADD
- B. Increase SHMTOTAL
- C. Decrease SHMBASE
- D. Increase SHMVIRTSIZE
- E. Decrease buffer pool size

Answer: B,E

Explanation:

Question No : 21

Without explicitly setting DBSPACETEMP and TEMPTABLE_NOLOG, where will temporary tables be created by default? (Choose three.)

- A. The root dbspace.
- B. The users' home directory.
- C. The \$INFORMIXDIR/tmp directory.
- D. The dbspace in which the active database was created.
- E. The /tmp directory or PSORT_DBTEMP.

Answer: A,D,E

Explanation:

Question No : 22

What two onconfig parameters will help improve performance of new network connections? (Choose two.)

- A. NETTYPE
- B. VPCLASS
- C. NS_CACHE
- D. FET_BUF_SIZE
- E. NUMFDSERVERS

Answer: C,E

Explanation:

Question No : 23

Given the following SQL command where the DBSPACETEMP onconfig and environment variables are set to valid dbspaces:

```
create temp table mytemp (columns) with no log;
```

in what order will the instance evaluate where to place this table?

- A. DBSPACETEMP environment variable, root dbspace, dbspace where the database was created, DBSPACETEMP onconfig parameter.
- B. DBSPACETEMP environment variable, DBSPACETEMP onconfig parameter, dbspace where the database was created, root dbspace.
- C. DBSPACETEMP onconfig parameter variable, DBSPACETEMP environment variable, root dbspace, dbspace where the database was created.
- D. DBSPACETEMP onconfig parameter variable, root dbspace, dbspace where the database was created, DBSPACETEMP environment variable.

Answer: B

Explanation:

Question No : 24

What ONCONFIG parameter can be tuned to increase memory for hash joins?

- A. RESIDENT
- B. EXTSHMADD
- C. VP_MEMORY_CACHE_KB
- D. DS_NONPDQ_QUERY_MEM

Answer: D

Explanation:

Question No : 25

Which two options can be used to monitor PDQ resources? (Choose two.)

- A. onstat -l.
- B. onstat -p.
- C. onstat -D.
- D. onstat -g ath.
- E. SET EXPLAIN output.

Answer: D,E

Explanation:

Question No : 26

Which statement about updating statistics is NOT true?

- A. UPDATE STATISTICS HIGH scans the entire table.
- B. Data distributions are updated every time UPDATE STATISTICS LOW is executed.
- C. UPDATE STATISTICS operations will benefit by tuning the DBUPSPACE environment

variable.

D. An UPDATE STATISTICS LOW command will ignore tables and indexes with modifications less than STATCHANGE.

Answer: B

Explanation:

Question No : 27

Most, but not all Virtual Processors, can be modified via the onmode -p command. Which CANNOT be modified?

- A. ADM
- B. BTS
- C. CPU
- D. CSM

Answer: A

Explanation:

Question No : 28

Which of the following gives a good initial estimate for the physical log size?

- A. 110% of rootdbs.
- B. 110% the default buffer pool.
- C. 110% of the logical log space.
- D. 110% of combined buffer pool.

Answer: D

Explanation:

Question No : 29

Which two onconfig parameters can be set to backup/restore to/from a cloud storage location? (Choose two.)

- A. TAPEDEV
- B. TAPEBLK
- C. LTAPEBLK
- D. LTAPEDEV
- E. BAR_BSA LIB_PATH

Answer: A,D

Explanation:

Question No : 30

Which two objects are NOT included in a backup? (Choose two.)

- A. Tables
- B. Indexes
- C. External tables
- D. Simple blob data stored in simple blobspaces
- E. Basic text search indexes stored in external dbspaces

Answer: C,E

Explanation:

Question No : 31

What is used during Fast Recovery to return pages to the original state?

- A. Logical Log
- B. Physical Log
- C. External Tables
- D. Temporary DBSpaces

Answer: B

Explanation:

Question No : 32

To maximize the performance of your OnBar backup and recovery operations, what should you do?

- A. Use a commercial storage manager.
- B. Use the bundled Informix Storage Manager (ISM).
- C. Use a combination of disk-based and tape-based backup devices.
- D. Use separate storage devices for instance spaces and logical logs.

Answer: D

Explanation:

Question No : 33

Which option would be used with "cdr define replicate" to create a shadow replicate?

- A. --backup
- B. --mirrors
- C. --shadow
- D. --synchronize

Answer: B

Explanation:

Question No : 34

How many paging files are required for SD secondary instances?

- A. There should always be two.
- B. It depends on how many CPU VPs you have.
- C. It depends on how many data dbspaces you have.
- D. It depends on how many temporary dbspaces you have.

Answer: A

Explanation:

Question No : 35

What statement about users accessing a Flexible Grid is true?

- A. Every user can execute commands on the Flexible Grid.
- B. Only user informix can execute commands on a Flexible Grid.
- C. Users have to be authorized to execute Flexible Grid commands.
- D. Commands can only be executed from the node on which the Flexible Grid was created.

Answer: C

Explanation:

Question No : 36

A Connection Manager is started with the following Service Level Agreement:

SLA report=(SDS+report_server)

Where will a connection to the report SLA be redirected?

- A. Any available SDS (Shared Disk Secondary) server, then report_server.
- B. Report_server, then any available SDS server.
- C. Report_server, then the SDS server with most available resources.
- D. The server with the most available resources in the SLA list, including all SDS servers and report_server.

Answer: D

Explanation:

Question No : 37

Which of the following is NOT a step in setting up HDR for the first time?

- A. Take a level 0 backup of the primary.
- B. Use oninit -v to bring up the secondary.
- C. Execute a physical restore on the secondary.
- D. Use onmode -d to specify the secondary instance name.

Answer: B

Explanation:

Question No : 38

Assuming you have a table with a replicate defined. A Flexible Grid procedure is executed changing data in that table. What statement about replication of the changes is true?

- A. The changes cannot be replicated.
- B. The changes are replicated by default.
- C. You have to call ifx_set_erstate() to replicate changes.
- D. Only changes to primary key columns can be replicated.

Answer: C

Explanation:

Question No : 39

Given the following:

- A. Update three rows.
- B. Update one row and insert two rows.
- C. Update two rows and insert one row.
- D. Return a 26095 error - Cannot update or delete a row twice in a MERGE statement.

Answer: C

Explanation:

Question No : 40

Given the following SQL statement:

tab1	col1	col2
	1	1
	2	2

tab2	c1	c2
	1	3
	2	1

```
MERGE into tab1 USING tab2 on col1 = c1
  WHEN MATCHED THEN UPDATE
    SET col2 = col2 + c2
```

What does the merge statement do?

- A. For each row that matches the condition $col1 = c1$, it inserts a new row in tab1 with the sum of corresponding c2 and col2 column values.
- B. For the rows that match the condition $col1 = c1$, it adds the the c2 column value to the col2 column value and updates corresponding rows in tab1.
- C. For the rows that match the condition, $col1 = c1$, it adds the col2 column value to the c2 column value and updates corresponding rows in tab2.
- D. Deletes rows from tab2 and updates rows in tab1 that match the condition $col1 = c1$ by adding the c2 column value to the col2 column value of corresponding rows in tab1.

Answer: B

Explanation:

Question No : 41

Which list fragmentation statement is true?

- A. It cannot be used for indexes.
- B. It allows overlapping fragments.
- C. It can only be used for numeric columns.
- D. It allows a fragment to be defined as a remainder.

Answer: D

Explanation:

Question No : 42

Fragment level statistics are NOT supported with which fragmentation strategy?

- A. List fragmentation.
- B. Interval fragmentation.
- C. Expression fragmentation.
- D. Round-robin fragmentation.

Answer: D

Explanation:

Question No : 43

Given the SQL explain output of this star join query, which is the fact table?

```
select sales.pk  
from sales, region, product, date, customer  
where sales.fk1 = region.pk  
and sales.fk2 = product.pk  
and sales.fk3 = date.pk  
and sales.fk4 = customer.pk  
and sales.pk < 5000 and region.data1 < 50  
and product.data2 < 66 and date.data3 < 50  
and customer.data4 < 71
```

Estimated Cost: 442

Estimated # of Rows Returned: 2

Maximum Threads: 21

1) sqlqa.customer: SEQUENTIAL SCAN (Parallel, fragments: ALL)
Filters: sqlqa.customer.data4 < 71

2) sqlqa.sales: INDEX PATH
Filters: sqlqa.sales.pk < 5000

(1) Index Name: sqlqa.iffk4
Index Keys: fk4 (Parallel, fragments: ALL)
Lower Index Filter: sqlqa.sales.fk4 = sqlqa.customer.pk NESTED LOOP JOIN

3) sqlqa.date: SEQUENTIAL SCAN (Parallel, fragments: ALL)

Filters:

Table Scan Filters: sqlqa.date.data3 < 50

- A. sales
- B. product
- C. region
- D. customer

Answer: A

Explanation:

Question No : 44

Which sbspaces statement is FALSE?

- A. Sbspaces may be recoverable.
- B. Sbspaces can be of varying page size.
- C. Sbspaces may be part of round robin fragmentation.
- D. Sbspaces have read, write and seek properties similar to UNIX functions.

Answer: B

Explanation:

Question No : 45

Under which condition can table fragments NOT be eliminated during query processing?

- A. Tables with non-overlapping fragments and an equality query predicate.
- B. Tables with round-robin distribution scheme and a range query predicate.
- C. Tables with non-overlapping fragments on a single column and a range query predicate.
- D. Tables with overlapping or non-contiguous fragments on a single column and an equality query predicate.

Answer: B

Explanation:

Question No : 46

When adding space to the storagepool, which correctly describes the type of storage which may be placed in the storagepool?

- A. Cooked file only.
- B. Raw devices only.
- C. Cooked files and Raw devices only.
- D. Cooked files, Raw devices and Directories.

Answer: D

Explanation:

Question No : 47

Which object can be defragmented?

- A. index
- B. external table

- C. temporary table
- D. system catalog table

Answer: A

Explanation:

Question No : 48

Which statement about Informix data compression is true?

- A. Compressing data on one Enterprise Replication (ER) node affects the data on the other ER nodes.
- B. I/O-bound tables, for example, those with bad cache hit ratios, are good candidates for compression.
- C. Compression operations can be executed on a HDR secondary, RS secondary, or SD secondary server.
- D. Compressing data on a primary instance will not compress data on the High-Availability Data Replication (HDR) secondary instance.

Answer: B

Explanation:

Question No : 49

Which CANNOT be used to move compressed data from one database to another?

- A. dbload
- B. dbexport
- C. onunload
- D. High-Performance Loader

Answer: C

Explanation:

Question No : 50

Which storage space should be used to store columns defined as a BLOB or a CLOB?

- A. sbspace
- B. dbspace
- C. extspace
- D. blobspace

Answer: A

Explanation:

Question No : 51

What does the SP_WAITTIME variable control?

- A. The maximum time allowed for distributed stored procedures to complete.
- B. The maximum amount of wait time for a reply from an H/A cluster secondary.
- C. The maximum time a user session will wait for a space extension to complete.
- D. The maximum amount of wait time permitted before an automatic space allocation will begin.

Answer: C

Explanation:

Question No : 52

When executing the SQL Admin API "defragment table" and "table repack" commands on the customer table, what will happen to the table? (Choose two.)

```
execute function sysadmin:task("defragment table","customer");
```

```
execute function sysadmin:task("table repack", "customer");
```

- A. Fragments of a table will be combined.
- B. Rows will be moved to the beginning of table.
- C. Given sufficient resources the number of extents in the table will be reduced.
- D. Free space at the end of the table will be released to the dbspace for other tables to use.

E. The table will be locked preventing inserts from happening for the duration of the commands.

Answer: B,C

Explanation:

Question No : 53

Which \$ONCONFIG parameter triggers an automatic increase to a chunk or space based on remaining free space?

- A. SP_AUTOGROW
- B. SP_THRESHOLD
- C. SP_AUTOEXPAND
- D. SP_CHUNKEXTEND

Answer: B

Explanation:

Question No : 54

Which statement about automatic space management is true?

- A. Spaces cannot be extended manually.
- B. Only unmirrored spaces can be extended.
- C. Mirrored and unmirrored spaces can be extended.
- D. The time interval for low storage space checks is not user configurable.

Answer: B

Explanation:

Question No : 55

Which environment option can rollback transactions using a table involved in an ALTER

FRAGMENT ON TABLE operation?

- A. FORCE_DML_EXEC
- B. FORCE_DDL_EXEC
- C. ROLLBACK_DML_EXEC
- D. ROLLBACK_DDL_EXEC

Answer: B

Explanation:

Question No : 56

The user 'guest' connected to a local database world@lsys and wants to execute the following query:

```
DATABASE world@lsys;  
SELECT a.city, b.latitude  
FROM country a, globe@rsys:sadm.position b  
WHERE a.cid = b.cid;
```

What two permissions does the user 'guest' need to access the remote table? (Choose two.)

- A. User 'guest' must have SELECT permission on 'globe'
- B. User 'guest' must have CONNECT permission on 'globe'
- C. User 'guest' must have SELECT permission on 'globe@rsys:position'
- D. User 'guest' must have CONNECT permission on 'globe@rsys:sadm.position'
- E. User 'guest' must have RESOURCE permission on 'world@lsys'

Answer: B,C

Explanation:

Question No : 57

Identify a scenario when you CANNOT use in-place migration?

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