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**Vendor:** IBM

**Exam Code:** C2090-540

**Exam Name:** IBM PureData System for Analytics v7.0

**Version:** Demo

**QUESTION: 1**

A SELECT statement spends all its time returning 1 billion rows. What can be done to make this faster?

- A. Use a CURSOR.
- B. Use an EXTERNAL table.
- C. Use the COPY command.
- D. Increase the PreFetch Count.

**Answer: B**

**QUESTION: 2**

What function can nzbakup perform?

- A. Back up pg.log files. B.  
Back up TEMP tables.
- C. Back up host data (catalog metadata).
- D. Back up the data using the specified number of streams.

**Answer: D**

**QUESTION: 3**

nzbakup/nzrestore with the -user option has been replaced with which option to allow multi-level security (MLS) information, such as categories, cohorts, and levels to be backed up/restored?

- A. -all B.  
-mls C. -  
users
- D. -globals

**Answer: D**

**QUESTION: 4**

When loading a local ASCII file into table via an external table, where can the SQL be submitted?

- A. From a User Defined Function.
- B. From a JDBC application networked to the system.
- C. From nzsqli on an AIX machine networked to the system.
- D. From nzsqli on Microsoft Windows networked to the system.

**Answer:** B

**QUESTION: 5**

Which is NOT a function that can be performed by nzbackup?

- A. Backup data
- B. Backup schemas
- C. Backup users/groups
- D. Backup the /nz/data directory

**Answer:** D

**QUESTION: 6**

Which nzload operation statement is correct?

- A. nzload must have a control file.
- B. nzload performs singleton inserts.
- C. nzload user must have CREATE EXTERNAL TABLE privilege.
- D. nzload must be run from the PureData System for Analytics host.

**Answer:** C

**QUESTION: 7**

Name the CLI application that allows you to load data from ASCII files to database tables?

- A. nzload
- B. loadmgr
- C. nzimport

D. nzrestore

**Answer:** A

**QUESTION:** 8

You have access to two databases, DEV and PROD. Currently you are connected to the DEV database. Which operation is permitted?

- A. Delete from PROD..TableA B.
- Select \* from PROD..TableA C.
- Truncate table PROD..TableA
- D. Insert into PROD..TableA select \* from DEV..TableB

**Answer:** B

**QUESTION:** 9

Which statement is true?

- A. MATERIALIZED VIEWS can be run against EXTERNAL tables.
- B. GENERATE STATISTICS can be run against EXTERNAL tables.
- C. EXTERNAL table data is deleted using the SQL DELETE command.
- D. EXTERNAL tables can be used to unload data to a Microsoft Windows directory.

**Answer:** D

**QUESTION:** 10

What is required to troubleshoot a query?

- A. nzevents and the pg.log.
- B. nzsqli and the ODBC config.
- C. nzinventory and the dbos.log.
- D. nzdumpschema and the execution plan.

**Answer:** D

**QUESTION: 11**

Given a plan ID, how would you obtain the query execution plan? (Choose two.)

- A. Turn ODBC tracing ON.
- B. Issue "SELECT \* FROM \_V\_SESSION;"
- C. Go to the query history within the Windows NzAdmin GUI tool.
- D. Run EXECUTION PLAN before the query has been submitted.
- E. Issue "SHOW PLANFILE <nn>;" after the query has been submitted.

**Answer:** C, E

**QUESTION: 12**

When is the ToplogyImbalance event triggered?

- A. When a SAS switch has failed.
- B. When the path the path between an S-Blade and its disks has failed.
- C. When a disk enclosure's voltage sensor is reading outside the nominal range.
- D. When an S-Blade has ownership of more dataslices than is optimal (usually following a disk replacement).

**Answer:** D

**QUESTION: 13**

Which component failure does NOT trigger a HardwareServiceRequested event?

- A. Fan
- B. Disk
- C. Host
- D. S-Blade

**Answer:** C

**QUESTION: 14**

Which statement describes administrative privileges?

- A. Provides audit functionality for the database.
- B. Manages resource allocations for concurrent processing.
- C. Gives permission to execute global operations and to create objects.
- D. Gives additional storage to select members of the administrator group.

**Answer:** C

**QUESTION:** 15

The query history data collected DOES NOT provide insight to which of the type of performance and behavior questions?

- A. The typical or most common types of queries.
- B. The longest and shortest running queries on the system.
- C. The queries submitted by specific users or groups of users.
- D. The rotational speed of the disk drives during query execution.

**Answer:** D

**QUESTION:** 16

When setting up a crontab entry, what must be done on a PureData System for Analytics server?

- A. Create an nzcron event.
- B. nzstop/nzstart the database.
- C. Stop and start the appliance.
- D. Add entry to active host and standby host.

**Answer:** D

**QUESTION:** 17

Which is a function of the Linux-HA heartbeat?

- A. Performs regeneration of failed disks on the hosts.
- B. Manages communication and processes on the S-Blades.
- C. Performs disk partitioning and status of jobs on the S-Blades.
- D. Manages communication and status of services on the hosts.

**Answer: D**

**QUESTION: 18**

Which High-Availability (HA) mechanism is used by the PureData System for Analytics Appliance?

- A. AIX-HA
- B. Linux-HA
- C. SuSE-HA
- D. Solaris-HA

**Answer: B**

**QUESTION: 19**

Which condition will NOT fail or restart a running query on a PureData System for Analytics Appliance?

- A. Disk resets or fails.
- B. Host resets or fails.
- C. S-Blade resets or fails.
- D. Snippet Processing Unit (SPU) resets or fails.

**Answer: A**

**QUESTION: 20**

Which condition will interrupt a query running on a fully operational PureData System for Analytics?

- A. One fan fails.
- B. One disk fails.
- C. Active host fails.
- D. One power supply fails.

**Answer: C**

**QUESTION: 21**

A group has a resource allocation maximum of 50% and the job maximum is set to 1. Two users within this resource group each execute 1 job at the same time, which statement is correct?

- A. Each job gets 25% and both run at the same time.
- B. Each job gets 50% but only one job runs at a time.
- C. Each job gets 50% and both run at the same time.
- D. You cannot set the job maximum per resource group.

**Answer: B**

**QUESTION: 22**

Given the following query: `Select count(*) from TableA;` How can you view the query plan without executing the query?

- A. Use `explain`.
- B. Use `statistics`.
- C. Use `pg.log` file.
- D. Set `show_plan = true;`

**Answer: A**

**QUESTION: 23**

TableA is currently being accessed in a number of long running queries. Which of the following operations is NOT blocked, thus allowing the operation to immediately proceed?

- A. `DROP TABLE TableA`
- B. `ALTER TABLE TableA`
- C. `TRUNCATE TABLE TableA`
- D. `GRANT SELECT ON TableA TO UserA`

**Answer: D**



**QUESTION: 24**

If 'admin' user is running a query, what percentage of resources are available when Guaranteed Resource Allocation (GRA) is Enabled?

- A. The maximum GRA assigned to the ADMIN group.
- B. The maximum GRA assigned to the PUBLIC group.
- C. 100% of the resources while other resource groups are active.
- D. Typically half of the resources while other resource groups are active.

**Answer: D**

**QUESTION: 25**

What CANNOT be measured and managed by system views?

- A. Temperature values on S-blade.
- B. Status of the host attached storage.
- C. Power supply status for each frame.
- D. Resource group utilization and history.

**Answer: B**

**QUESTION: 26**

What will occur when two tables are joined together and the data is NOT collocated?

- A. No data movement is required.
- B. A merge join operation will be performed.
- C. A cluster based join method is performed.
- D. Data is dynamically redistributed or broadcasted.

**Answer: D**

**QUESTION: 27**

When a temporary table is created, where will the data be stored?

A. On the host under the /nz/tmp directory. B. On the S-Blades under the data partition. C. Held in physical memory on the S-Blades. D. On the S-Blades under the swap partition.

**Answer: B**

**QUESTION: 28**

What is the limitation on join types with floating-point data types?

A. The system does not have a limitation on floating-point data types.  
B. The system cannot perform any type of join on floating-point data types.  
C. The system cannot perform a fast sort merge join on a floating point data type, but instead must perform a slower hash join.  
D. The system cannot perform a fast hash join on a floating point data type, but instead must perform a slower sort merge join.

**Answer: D**

**QUESTION: 29**

Which statement is true about data flowing in/out of the PureData System for Analytics Appliance?

A. Bypasses the host.  
B. Flows through the host.  
C. Compressed on the host.  
D. Uncompressed on the host.

**Answer: B**

**QUESTION: 30**

Why is table skew important to manage?

A. Low table skew negatively impacts performance.  
B. High table skew negatively impacts performance.  
C. Low table skew negatively impacts data compression.

D. Deleted rows consume disk space until they are freed.

**Answer:** B

**QUESTION:** 31

Which statement is true regarding the compress engine?

- A. Data automatically gets compressed.
- B. Columns to be compressed must be defined.
- C. The nzcompress utility must be run to compress the table.
- D. The nzcompress utility must be run to compress the database.

**Answer:** A

**QUESTION:** 32

The PureData System for Analytics implements which level of transaction isolation?

- A. Serializable
- B. Committed read
- C. Repeatable read
- D. Uncommitted read

**Answer:** A

**QUESTION:** 33

Which two statements are true about queries on the PureData System for Analytics Appliance? (Choose two.)

- A. Queries are executed in parallel by the host.
- B. Queries must be compressed before they can be executed.
- C. Queries are compiled into snippets and executed in parallel by the S-Blades.
- D. Queries must be uncompressed by the user and executed in parallel by the host.
- E. A query is compiled into a snippet which is executed across all available S-Blades.

**Answer:** C, E

**QUESTION: 34**

In order to set a runaway query event to trigger when a query runs longer than two minutes, which two items must be configured? (Choose two.)

- A. The runaway query event was enabled.
- B. The pg.log file was configured for two minutes.
- C. The runaway query event was configured for two minutes.
- D. The nzsystm command was used to set the QUERYTIMEOUT to two minutes.
- E. The CREATE USER command was used to set the QUERYTIMEOUT to two minutes.

**Answer:** A, E

**QUESTION: 35**

Where are the database log files located?

- A. /var/log
- B. /usr/local
- C. /nz/kit/log
- D. The SYSTEM database

**Answer:** C

**QUESTION: 36**

OLE-DB based applications on UNIX requires which PureData System for Analytics software?

- A. Install the JDBC driver for UNIX.
- B. Install the ODBC driver for UNIX.
- C. Install the OLE-DB driver for UNIX.
- D. OLE-DB is not supported on UNIX.

**Answer:** D

**QUESTION: 37**

In order for an ODBC application running on Microsoft Windows to connect to PureData System for Analytics, which two steps must be performed? (Choose two.)

- A. Install nzsqli for Windows.
- B. Install nzAdmin for Windows.
- C. Install an ODBC driver for Windows.
- D. Install an ODBC Driver Manager for Windows.
- E. Create or modify a Data Source Name (DSN) for a connection to a database.

**Answer:** C, E

**QUESTION: 38**

Which command is used to display operational statistics about system capacity, faults, and performance?

- A. nzstats
- B. nzstate
- C. nzshow
- D. nzsystem

**Answer:** A

**QUESTION: 39**

Which command is used to abort a user's SQL transaction?

- A. kill B.
- abort C.
- nzstop
- D. nzsession

**Answer:** D

**QUESTION: 40**

Which command allows you to show information about the database hardware as well as take actions such as activate or deactivate components, locate components, or delete them from the system?

- A. sar
- B. nzhw
- C. nzsystem
- D. nzinventory

**Answer:** B

**QUESTION:** 41

What is the only predefined database user, which is able to access all objects and perform all tasks against the database?

- A. root
- B. public
- C. admin
- D. system

**Answer:** C

**QUESTION:** 42

What operating system runs on a PureData System for Analytics host?

- A. AIX
- B. SUSE Linux
- C. Nucleus OS
- D. Redhat Linux

**Answer:** D

**QUESTION:** 43

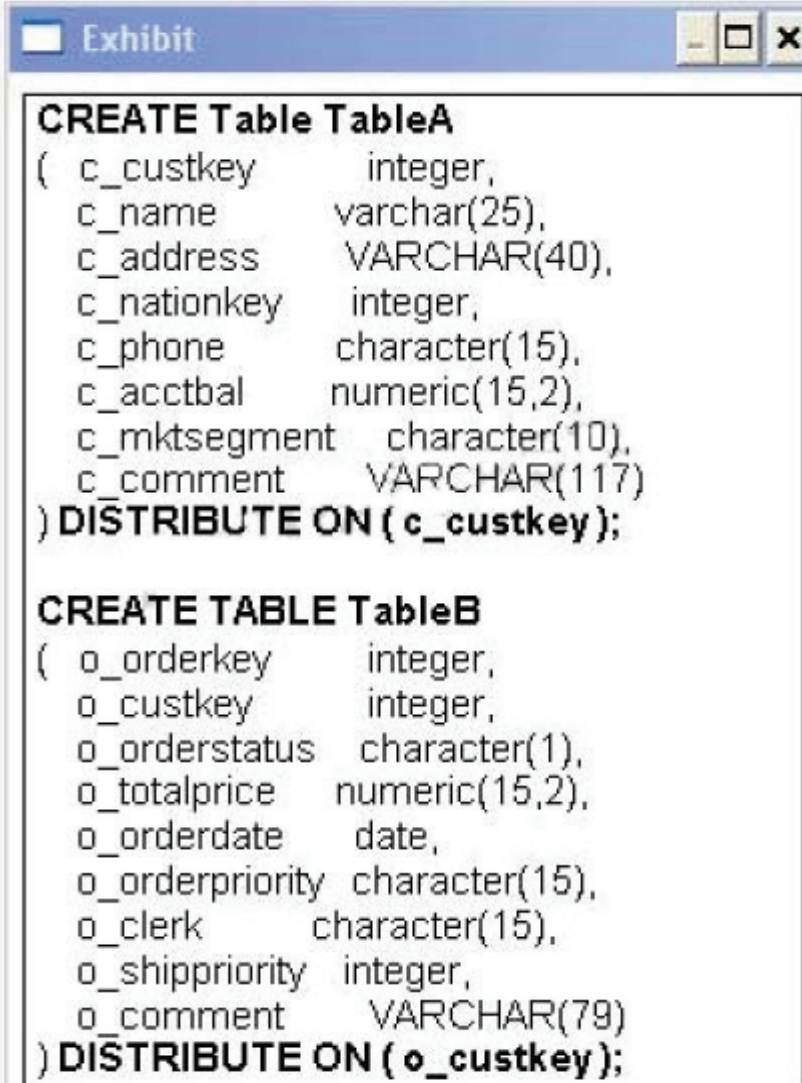
What PureData System for Analytics component is responsible for controlling table storage?

- A. S-Blade (Snippet-Blade)
- B. SFI (Switching Fabric Interface)
- C. FPGA (Field Programmable Gate Array)
- D. DRBD (Distributed Replicated Block Device)

**Answer:** A

**QUESTION:** 44

Click on the exhibit.



```
CREATE Table TableA
( c_custkey      integer,
  c_name        varchar(25),
  c_address     VARCHAR(40),
  c_nationkey   integer,
  c_phone       character(15),
  c_acctbal     numeric(15,2),
  c_mktsegment  character(10),
  c_comment     VARCHAR(117)
) DISTRIBUTE ON ( c_custkey );

CREATE TABLE TableB
( o_orderkey     integer,
  o_custkey      integer,
  o_orderstatus  character(1),
  o_totalprice   numeric(15,2),
  o_orderdate    date,
  o_orderpriority character(15),
  o_clerk        character(15),
  o_shippriority integer,
  o_comment      VARCHAR(79)
) DISTRIBUTE ON ( o_custkey );
```

Given the following query: `SELECT * FROM TableA, TableB WHERE TableA.c_custkey = TableB.o_custkey`; What type of join processing will occur when the query is executed?

- A. Collocation hash join processing
- B. Distributed hash join processing
- C. Broadcast sort merge join processing
- D. Replication sort merge join processing

**Answer:** A

**QUESTION:** 45

Why should you avoid using Boolean data types as a distribution key for a table ?

- A. Table will not join.
- B. Table will not broadcast.
- C. Table is likely to be skewed.
- D. Table is likely to be evenly spread across data slices.

**Answer:** C

**QUESTION:** 46

What will prevent a GROOM TABLE command from running on a table named TableA?

- A. If there are any materialized views on the table TableA.
- B. If there are any active selects running against the table TableA.
- C. If there are any active nzloads running against the table TableA.
- D. If there are any active updates running against the table TableA.

**Answer:** A

**QUESTION:** 47

What two characteristics can be changed when using the CREATE TABLE AS (CTAS) statement to copy TableA to TableB? (Choose two.)



- A. The views on TableA.
- B. The privileges on TableA.
- C. The distribution key of TableB.
- D. The materialized views on TableB.
- E. The order of the data stored in TableB.

**Answer:** C, E

**QUESTION:** 48

When a CREATE TABLE AS (CTAS) is performed on a table creating more than 1,000,000,000 rows, which statement is true?

- A. Groom will be automatically invoked.
- B. Primary key constraints will be checked.
- C. Statistics will automatically be generated.
- D. Materialized views will be automatically generated.

**Answer:** C

**QUESTION:** 49

What is the host Linux file that must be modified to adjust optimizer settings permanently?

- A. /nz/data/postgresql.conf
- B. /nz/data/config/system.cfg
- C. /nz/kit/sys/initTopology.cfg
- D. /nz/kit/log/sysmgr/sysmgr.log

**Answer:** A

**QUESTION:** 50

Which statement is true about the groom feature?

- A. Groom allows the user to add row level security.
- B. Groom validates primary key constraints on the table.

- C. Groom reorders rows based on the DISTRIBUTE ON clause.
- D. Groom allows the user to reorganize tables based on the ORGANIZE ON clause.

**Answer:** D

**QUESTION: 51**

Why is generating statistics on a table important to query performance?

- A. The table statistics are used to facilitate disk space reclamation of deleted rows.
- B. The optimizer uses statistics to determine the optimal execution plan for queries.
- C. The Zone Map information cross references the table statistics for each column to avoid scanning.
- D. The Field Programmable Gate Array (FPGA) utilizes the statistics to identify which row/columns to filter.

**Answer:** B

**QUESTION: 52**

Using a date column as a distribution key may distribute rows evenly across datalices, why is this a poor choice of a distribution key?

- A. Queries on the table will invoke compression.
- B. Queries on date range may involve processing skew.
- C. Queries on date range will utilize only host processing.
- D. Queries on the table will invoke compression on the date columns.

**Answer:** B

**QUESTION: 53**

Which statement is true?

- A. All user space is available for database expansion.
- B. Each database is assigned it's own section of disk space.
- C. When creating the database you can specify which disks to use.
- D. When you create a database you can set the maximum space it is allowed to use.

**Answer: A**

**QUESTION: 54**

You have created a group GroupA with JOB MAXIMUM of 4, which statement is true?

- A. No more than 4 users can be assigned to GroupA.
- B. If users in GroupA submit more than 4 queries they will fail.
- C. If users in GroupA submit more than 4 queries, then they will queue in order.
- D. The job maximum cannot be less than the default concurrent query limit of 48.

**Answer: C**

**QUESTION: 55**

Which CREATE DATABASE attributes are required?

- A. The database name.
- B. The database name and the redo log file name.
- C. The database name and the table space name.
- D. The database name and the temporary table space name.

**Answer: A**

**QUESTION: 56**

Which statement is true for database users and groups?

- A. All users must belong to admin group.
- B. Creation of users and groups is not allowed.
- C. Users and groups are local and tied to a particular database.
- D. Users and groups are global and not tied to a particular database.

**Answer: D**

**QUESTION: 57**

When creating a table, you can specify a column constraint for each individual column of either "NULL" or "NOT NULL". When column values are later evaluated within a query statement, which of these is true?

- A. 0 is equal to null, the empty string ( " ) is equal to null.
- B. 0 is equal to null, the empty string ( " ) is not equal to null.
- C. 0 is not equal to null, the empty string ( " ) is equal to null.
- D. 0 is not equal to null, the empty string ( " ) is not equal to null.

**Answer:** D

**QUESTION:** 58

To create a database table, at a minimum, what must be specified?

- A. column name and data type.
- B. column name, data type and primary key.
- C. column name, data type and default constraint.
- D. column name, data type and distribute on clause.

**Answer:** A

**QUESTION:** 59

Which two characteristics describe materialized views. (Choose two.)

- A. Materialized views can contain aggregates.
- B. Materialized views can contain a HAVING clause.
- C. Materialized views can contain a WHERE clause.
- D. Materialized views can contain an ORDER BY clause.
- E. Materialized views can reference only one base table in the FROM clause.

**Answer:** D, E

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