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Vendor: IBM

Exam Code: 000-540

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.

Correct Answer: B

QUESTION 2

What function can nzbackup 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.

Correct Answer: D

QUESTION 3

nzbackup/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

Correct 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 nzsql on an AIX machine networked to the system.
- D. From nzsql on Microsoft Windows networked to the system.

Correct 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

Correct 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.

Correct 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

Correct 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

Correct 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.

Correct Answer: D

QUESTION 10

What is required to troubleshoot a query?

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

Correct 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.

Correct Answer: CE

QUESTION 12

When is the TopologyImbalance event triggered?

- A. When a SAS switch has failed.
- B. When 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).

Correct Answer: D

QUESTION 13

Which component failure does NOT trigger a HardwareServiceRequested event?

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

Correct 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.

Correct 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.

Correct 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.

Correct 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.

Correct 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

Correct 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.

Correct 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.

Correct 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.

Correct 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;`

Correct 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

Correct 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.

Correct 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.

Correct 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.

Correct 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.

Correct 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.

Correct 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.

Correct 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.

Correct 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.

Correct 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

Correct 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.

Correct Answer: CE

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 nzsystem command was used to set the QUERYTIMEOUT to two minutes.
- E. The CREATE USER command was used to set the QUERYTIMEOUT to two minutes.

Correct Answer: AE

QUESTION 35

Where are the database log files located?

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

Correct 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.

Correct 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 nzsql 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.

Correct Answer: CE

QUESTION 38

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

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

Correct Answer: A

QUESTION 39

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

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

Correct 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

Correct 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

Correct 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

Correct Answer: D

QUESTION 43

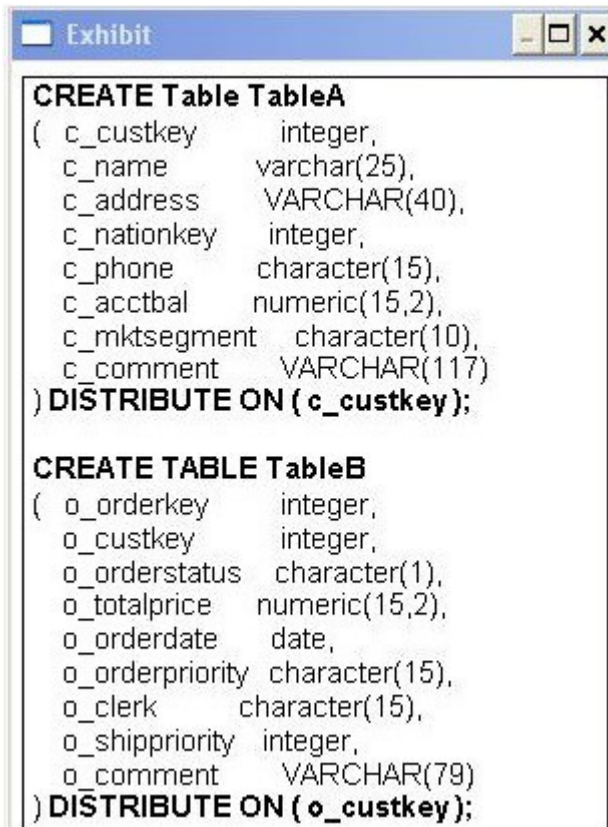
What PureData System for Analytics component is responsible for controlling table storage?

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

Correct 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

Correct 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.

Correct 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.

Correct 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.

Correct Answer: CE

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.

Correct 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

Correct 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.

Correct 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.

Correct Answer: B

QUESTION 52

Using a date column as a distribution key may distribute rows evenly across dataslices, 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.

Correct Answer: B

QUESTION 53

Which statement is true?

- A. All user space is available for database expansion.
- B. Each database is assigned its 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.

Correct 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.

Correct 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.

Correct 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.

Correct 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.

Correct Answer: D

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