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Exam : **HP0-781**

Title : NonStop Performance Analysis and Tuning

Version : Demo

1. Which product allows you to collect, measure, view, analyze and evaluate application service-level metrics?

A. ASAP

B. TPDC

C. PEEK

D. MEASURE
Answer:A

2. Which embedded SQL/MP statement is used for performance data collection?

A. INCLUDE SQLCA

B. INCLUDE SQLSA

C. INCLUDE SQLDA

D. INCLUDE SQLSTATS
Answer: B

3. When are the best times to take measurements of a system? Select TWO.

A. when another detailed measurement is active

B. continuously

C. when the system is lightly loaded

D. at peak time

E. during database reorganization
Answer: BD

4. Which PATHCOM command displays statistical information for all TCPs in the RUNNING state for a 10-minute interval?

A. STATS TCP *, STATE RUNNING, PERIOD 10 MINS

B. STATUS TCP *, STATE RUNNING, INTERVAL 10 MINS

C. STATS TCP *, STATUS RUNNING, PERIOD 10 MINS

D. STATS TCP *, STATE RUNNING, INTERVAL 10 MINS
Answer: D

5. Which statistical information can be obtained in SQLCI?

A. disk reads, message count, lock waits

B. lock escalations, cash hit, records accessed

C. index level, records used, timeouts

D. disk open, message bytes, esp time
Answer:A

6. Which Measure entities provide the data needed to determine a high level overview of the system over a 24-hour period?

A. CPU, PROCESS and DISC

B. CPU, PROCESS and DISKFILE

C. CPU, PROCESS and DISCOPEN

D. CPU, PROCESSH and DISC
Answer:A

7. Performance has gradually worsened for an application that sequentially reads a frequently updated file (inserts, deletes & updates). What would you do to enhance the performance?

A. fup reload

B. create index

C. add partition

D. update statistics
Answer:A

8. Which MEASURE entity can be used to implement transaction counting within an application process?

A. System

B. Process

C. Userdef

D. CPU
Answer: C

9. What is the best strategy to start measuring a system?

A. Run PEEK at random intervals.

B. Use VIEWSYS to monitor the system.

C. Use VIEWPOINT to highlight thresholds.

D. Perform a 24-hour measurement of the complete system.

Answer: D

10. What does ViewSys collect information about?

A. Open Control Blocks (OCB) currently in use

B. processor dispatch rate

C. EXPAND line utilization

D. records accessed/used for SQL SELECTS

Answer: B

11. A query accessing a file has recently suffered a significant performance degradation. What recommended action is
required on the file?
Click the Exhibit button.

```
Data Chain Information:
Number of chains        103
Longest chain             2
Chain length histogram
1                         0
2  -10                  100
11 -25                    0
26 - 50                   0
51 ?100                   0
> 100                    0
Avg blocks/chain          2
% of total blks in avg chain
        1%
```

A. The query needs recompilation.

B. The file does not need a reload.

C. The file needs a reload.

D. The file needs update statistics.
Answer: C

12. What would you do to enhance performance of the following query? Click the Exhibit button and scroll through the query.

```
Operation 1.0  : Scan
    Table              : \SUNNY.$CLASS1.SQLDB.EMPLOYEE
    Access type        : Record locks, stable access
    Lock mode          : Chosen by the system
    Column processing  : Requires retrieval of 6 out of 6 columns

      Access path 1    : Primary, partitioned, sequential cache
      SBB for reads    : Virtual
      Begin key pred.  : None
      End key pred.    : None
      Index selectivity       : Expect to examine 100% of rows from table
      Index pred.      : None
      Base table pred. : Will be evaluated by the disk process
                               DEPTNUM = 3600
      Pred. Selectivity       : Expect to select 1.1905% of rows from table

    Executor pred.     : None
    Table selectivity  : Expect to select 1.1905% of rows from table
    Expected row count : 236 rows after the scan
    Operation cost     : 848

  Total cost           : 848

>>invoke employee;
-- Definition of table \SUNNY.$CLASS1.SQLDB.EMPLOYEE
-- Definition current at 09:48:13 - 11/08/01

  (
    EMPNUM                NUMERIC( 6, 0) UNSIGNED NO DEFAULT NOT  NULL
  , FIRSTNAME           CHAR(15)                              NO DEFAULT NOT NULL
  , LASTNAME             CHAR(20)                              NO DEFAULT NOT NULL
  , DEPTNUM              NUMERIC( 4, 0) UNSIGNED        DEFAULT          NULL
  , JOBCODE              NUMERIC( 4, 0) UNSIGNED        DEFAULT          NULL
  , U_TIMESTAMP      DATETIME YEAR TO FRACTION(6) DEFAULT SYSTEM
  )
$CLASS1.SQLDB.EMPLOYEE                  8 Nov 2001,  9:54
    SQL BASE TABLE
    CATALOG $CLASS1.SQLCAT
    VERSION 2
    TYPE K
    FORMAT 1
    EXT ( 284 PAGES, 30 PAGES, MAXEXTENTS 160 )
    REC 59
    PACKED REC 58
    BLOCK 4096
    KEY ( COLUMN 0, OFFSET 0, LENGTH 4, ASC )
    INDEX ( 1, $CLASS1.SQLDB.XEMPNAME,
            COLUMN 2, OFFSET 19, LENGTH 20, ASC,
            COLUMN 1, OFFSET 4, LENGTH 15, ASC,
            NOT UNIQUE )
    PART ( 0, $CLASS1, 284 PAGES, 30 PAGES, MAXEXTENTS 160, FORMAT          1, 0 )
    PART ( 1, $CLASS2, 284 PAGES, 30 PAGES, MAXEXTENTS 160, FORMAT 1, 14521 )
    AUDIT
    BUFFERED
    AUDITCOMPRESS
    OWNER -1
    SECURITY (RWEP): NONO
    DATA MODIF:  12 Apr 2001, 18:11
    CREATION DATE:  28 Feb 2001, 14:41
    REDEFINITION DATE:  12 Apr 2001, 18:11
    LAST OPEN:   8 Nov 2001,  9:31
    EOF: 364544 (3.5% USED)
    EXTENTS ALLOCATED: 1
    INDEX LEVELS: 1
```

A. force VSBB

B. add more cash

C. partition the table

D. create an index

Answer: D

13. Which information is provided by TRA?

A. cache hit rate

B. status of reload

C. average blocks per chain

D. whether or not to reload a file

Answer: C

14. Which RDF global parameter should be set to allow monitoring of an Updater's lag time?

A. UPDATERDELAY

B. UPDATERRTDWARNING

C. UPDATERTXTIME

D. UPDATEROPEN

Answer: B

15. Scenario: The Marketing Group is asking for a new feature to be added to the retail OLTP application. They would
like to have an online query that would list the last 30 days of purchases for a given customer (credit card number).
The file that currently contains this information is Key-Sequenced and it is updated every time a purchase is finalized.
The primary key for this file is system generated, the remaining data elements are: timestamp, credit card number, the
part number of the item being purchased, the price and the quantity purchased.
You have been asked to recommend the optimal way to access this data. Select ONE.

A. Use the internal sort process and sort the file by the Timestamp

B. Create an Alternate Key file, using the Timestamp as Alternate Key value and accessing the file via the Alternate Key

C. Use the internal sort process and sort the file by the Credit Card Number

D. Create an Alternate Key file, using the Credit Card Number as Alternate Key value and accessing the file via the
Alternate Key

Answer: D

16. Which method contributes to increased memory usage?

A. shared run time libraries

B. reusable program modules

C. reusable objects

D. program pairs
Answer: D

17. What is the benefit of distributing processes across processors?

A. shorter path length

B. easier management of serverclasses

C. better load balancing

D. less use of memory resources
Answer: C

18. Parallelism is a major performance feature exploited by

A. a NonStop process pair

B. an audited transaction

C. file partitioning

D. priority setting
Answer: C

19. Which Pathway server class attribute directly controls the request queue?

A. TIMEOUT

B. CHECKPOINT

C. MAXLINKS

D. MAXSERVERS
Answer: C

20. During interpretation of a SCREEN COBOL program, the TCP is responsible for dynamically allocating and deallocating memory space for terminal and server I/O buffers. Which TCP attributes define the total space available for these buffers? Select TWO.

A. MAXTERMDATA

B. TERMPOOL

C. TERMBUF

D. MAXREPLY

E. SERVERPOOL
Answer: BE