

**IBM C2090-424**



**InfoSphere DataStage v11.3**

**Version: 4.0**

**QUESTION NO: 1**

Assume you have before and after data sets and want to identify and process all of the changes between the two data sets. Assuming data is properly partitioned and sorted, which of the following should be used?

- A. Difference
- B. Change Apply
- C. Change Capture
- D. Change Capture and Change Apply

**Answer: C**

Reference:[https://www-](https://www-01.ibm.com/support/knowledgecenter/SSZJPZ_11.3.0/com.ibm.swg.im.iis.ds.parjob.dev.doc/topics/c_deeref_Change_Capture_Stage.html)

[01.ibm.com/support/knowledgecenter/SSZJPZ\\_11.3.0/com.ibm.swg.im.iis.ds.parjob.dev.doc/topics/c\\_deeref\\_Change\\_Capture\\_Stage.html](https://www-01.ibm.com/support/knowledgecenter/SSZJPZ_11.3.0/com.ibm.swg.im.iis.ds.parjob.dev.doc/topics/c_deeref_Change_Capture_Stage.html)

**QUESTION NO: 2**

In the Masking Policy Editor in the Data Masking stage of your job, you have specified for a column containing credit card numbers the Random Replacement masking policy. For the Copy option you have specified "(1,2)(3,4)".

What changes will be made to a credit card number, such as 6327664369, to mask it?

- A. Digits 1 through 2 and digits 3 through 4 will be randomly changed. The rest of the digits will remain the same.
- B. Digits 1 through 2 and digits 3 through 4 will remain the same. The rest of the digits will be randomly changed.
- C. The 2 digits starting at digit 1 and the 4 digits starting at digit 3 will remain the same. The rest of the digits will be randomly changed.
- D. The 2 digits starting at digit 1 and the 4 digits starting at digit 3 will be randomly changed. The rest of the digits will remain the same.

**Answer: D**

**Explanation:**

**QUESTION NO: 3**

What is the primary advantage of creating data rules within Information Analyzer as opposed to creating them within the Data Rules stage?

- A.** Data rules cannot be created within the Data Rules stage. They must first be created in Information Analyzer before they can be used in the Data Rules stage.
- B.** Rules created within Information Analyzer can be tested and debugged on non-operational data in a testing environment before they are put into production.
- C.** Rules created in the DataStage Data Rules stage have to be compiled into an executable form before they can be used.
- D.** The variables in rules created in DataStage Data Rules stage must first be bound to data columns or literals before they can be run.

**Answer: B**

**Explanation:**

#### **QUESTION NO: 4**

Which stages will require a schema file when runtime column propagation (RCP) is enabled?  
(Choose two.)

- A.** Data Set
- B.** Column Import
- C.** Internal Source
- D.** External Target
- E.** Make Subrecord

**Answer: B,D**

Reference:[https://www-](https://www-01.ibm.com/support/knowledgecenter/SSZJPZ_11.3.0/com.ibm.swg.im.iis.ds.parjob.dev.doc/topics/c_deeref_using_rcp_with_sequential_stages.html)

[01.ibm.com/support/knowledgecenter/SSZJPZ\\_11.3.0/com.ibm.swg.im.iis.ds.parjob.dev.doc/topics/c\\_deeref\\_using\\_rcp\\_with\\_sequential\\_stages.html](https://www-01.ibm.com/support/knowledgecenter/SSZJPZ_11.3.0/com.ibm.swg.im.iis.ds.parjob.dev.doc/topics/c_deeref_using_rcp_with_sequential_stages.html)

#### **QUESTION NO: 5**

Which of the following actions are available when editing a message handler?

- A.** Abort Job
- B.** Demote to warning
- C.** Promote to warning
- D.** Promote to informational

**Answer: C**

Reference:[http://www-](http://www-01.ibm.com/support/knowledgecenter/SSZJPZ_8.5.0/com.ibm.swg.im.iis.ds.design.help.doc/topics/editmessagehandlerswindow.html)

[01.ibm.com/support/knowledgecenter/SSZJPZ\\_8.5.0/com.ibm.swg.im.iis.ds.design.help.doc/topics/editmessagehandlerswindow.html](http://www-01.ibm.com/support/knowledgecenter/SSZJPZ_8.5.0/com.ibm.swg.im.iis.ds.design.help.doc/topics/editmessagehandlerswindow.html)

**QUESTION NO: 6**

The Lookup stage is one of three stages that join records based on the values of key columns. What are the other stages? (Choose two.)

- A. Join
- B. Merge
- C. Modify
- D. Funnel
- E. Difference

**Answer: A,B**

Reference:[https://www-](https://www-01.ibm.com/support/knowledgecenter/SSZJPZ_11.3.0/com.ibm.svg.im.iis.ds.parjob.dev.doc/topics/c_deeref_Lookup_Stage.html)

[01.ibm.com/support/knowledgecenter/SSZJPZ\\_11.3.0/com.ibm.svg.im.iis.ds.parjob.dev.doc/topics/c\\_deeref\\_Lookup\\_Stage.html](https://www-01.ibm.com/support/knowledgecenter/SSZJPZ_11.3.0/com.ibm.svg.im.iis.ds.parjob.dev.doc/topics/c_deeref_Lookup_Stage.html)

**QUESTION NO: 7**

Which type of data can be extracted using the Unstructured Data stage?

- A. XML data
- B. Microsoft Word data
- C. Microsoft Excel data
- D. BigInsights HDFS file data

**Answer: C**

Reference:[https://www-](https://www-01.ibm.com/support/knowledgecenter/SSZJPZ_11.3.0/com.ibm.svg.im.iis.ds.unstructureddatastage.usage.doc/topics/uds_extract_data.html)

[01.ibm.com/support/knowledgecenter/SSZJPZ\\_11.3.0/com.ibm.svg.im.iis.ds.unstructureddatastage.usage.doc/topics/uds\\_extract\\_data.html](https://www-01.ibm.com/support/knowledgecenter/SSZJPZ_11.3.0/com.ibm.svg.im.iis.ds.unstructureddatastage.usage.doc/topics/uds_extract_data.html)

**QUESTION NO: 8**

Consider a customer with multiple environments, Development, Test and Production. Which statement is TRUE?

- A. Each environment must have a C++ compiler.
- B. QualityStage rule sets are not a type of deployable asset.

- C. It is not possible to revert to a previous version of a package.
- D. A package can contain an improved version of a job which will replace the old one.

**Answer: B**

**Explanation:**

#### **QUESTION NO: 9**

Which of the following is TRUE when using a data set created with a 4 node config file?

- A. Data sets are operating system files
- B. Data is stored in a non-persistent form
- C. The data set control file holds all your data
- D. A Data Set stage can have 1 input link and multiple output links

**Answer: B**

**Explanation:**

#### **QUESTION NO: 10**

Which statement about restartable sequence jobs is TRUE?

- A. If a restartable sequence aborts, it can be restarted from Director.
- B. Choosing "Reset job" from Director will start the job where it left off.
- C. Checkpoints are always added to every eligible Job Activity stage in the sequence.
- D. There is no way to force a Job Activity stage to return if the sequence got beyond it.

**Answer: A**

Reference: <http://www-01.ibm.com/support/docview.wss?uid=swg1JR46534>

#### **QUESTION NO: 11**

Which of the following is NOT TRUE about the DataStage job score?

- A. It includes the operators automatically inserted at runtime
- B. It helps to determine the number of actual operating system processes
- C. It reports the amount of memory used by the inter-operator transport buffers

D. It outlines the connection topology between adjacent operators and persistent data sets

**Answer: B**

**Explanation:**

## QUESTION NO: 12

Given this configuration file:

```
{
  node "Conductor"
  {
    fastname "is1"
    pools "conductor"
    resource disk "/NAS/Datasets" {pools""}
    resource scratchdisk "/scratch" {pools""}
  }
  node "node2"
  {
    fastname "is2"
    pools ""
    resource disk "/NAS/Datasets" {pools""}
    resource scratchdisk "/scratch" {pools""}
  }
}
```

Which of the following describes the resulting behavior for a job consisting of Row Generator -> data set?

- A. Conductor, section leader and player processes are executed on the server is1 and is2.
- B. Conductor process is executed on the server is1. Section leader and Player processes are executed on the server is2.
- C. Conductor and section leader processes are executed on the server is1. Player processes are executed on the server is2.
- D. Conductor process and player processes are executed on the server is1. Section leader process is executed on the server is2.

**Answer: C**

**Explanation:****QUESTION NO: 13**

Given this score:

```
##| TFSC 004000 14:51:50(000) <main_program>
This step has 1 data set:
ds0:{op0[1p](sequential generator)
  eOther(APT_HashPartitioner {key={ value=a}
})->eCollectAny
  op1[2p] (parallel APT_CombinedOperatorController:tsort)}
It has 2 operators:
op0[1p]{{(sequential generator)
  on nodes (
    datastage.ibm.com.1[op0,p0]
  )}
op1[2p] {(parallel APT_CombinedOperatorController: (tsort) (peek) )
  on nodes (
    datastage.ibm.com.1[op1,p0]
    datastage.ibm.com.2[op1,p1]
  )}
```

It runs 3 processes on 2 nodes.

How does the job run?

- A. On two physical nodes and two logical nodes
- B. On two physical nodes and single logical node
- C. On a single physical node and two logical nodes
- D. On a single physical node and single logical node

**Answer: D**

**Explanation:**

**QUESTION NO: 14**

Which one of the following is an implicit data type conversion?

- A. date -> char
- B. char -> date
- C. varchar -> char
- D. char -> timestamp

**Answer: D**

**Explanation:**

### **QUESTION NO: 15**

Which of the following are valid stage options for a parallel DataStage job which uses a configuration file with multiple nodes and a File Connector as a source running in parallel mode? (Choose two.)

- A. Provide a specific file name in the file name property.
- B. In the file name property, provide a file name with a wildcard that matches the existing file names.
- C. Provide a specific file name in the file name property and select the option "Number of Readers Per Node" to be greater than 1.
- D. Set the read method with specific file(s), set the Read From Multiple Nodes = yes, and provide the specific file in the file property.
- E. Set the read method with a file pattern and provide a file name with a wildcard that matches the existing file names in the file pattern property.

**Answer: C,D**

**Explanation:**

### **QUESTION NO: 16**

Which statement about the ISD input stage is NOT TRUE?

- A. A job must have zero or one ISD input stages
- B. A job with an ISD input stage must have an ISD output stage
- C. Buffer size and timeout values can be supplied as job parameters
- D. Text over JMS binding is only available if you are using Network Deployment

**Answer: D**

Reference: [https://www-](https://www-01.ibm.com/support/knowledgecenter/SSZJPZ_11.3.0/com.ibm.swg.im.iis.infoservdir.user.doc/topics/t_isd_user_configuring_wisd_input_stage.html)

[01.ibm.com/support/knowledgecenter/SSZJPZ\\_11.3.0/com.ibm.swg.im.iis.infoservdir.user.doc/topics/t\\_isd\\_user\\_configuring\\_wisd\\_input\\_stage.html](https://www-01.ibm.com/support/knowledgecenter/SSZJPZ_11.3.0/com.ibm.swg.im.iis.infoservdir.user.doc/topics/t_isd_user_configuring_wisd_input_stage.html)



**QUESTION NO: 17**

In order to collect operational metadata, you must do which of the following?

- A.** Enable “Generate operational metadata” in the Execution tab of the job properties using the Designer client
- B.** Enable “Generate operational metadata” in the General tab of the project properties using the Director client
- C.** Enable “Record job performance data” in the General tab of the project properties using the Administrator client
- D.** Enable “Generate operational metadata” in the General tab of the Job Run Options dialog box in the Director client

**Answer: C**

Reference:[https://www-](https://www-01.ibm.com/support/knowledgecenter/SSZJPZ_11.3.0/com.ibm.svg.im.iis.ds.admin.doc/topics/t_dachref_Capturing_Process_Meta_Data.html)

[01.ibm.com/support/knowledgecenter/SSZJPZ\\_11.3.0/com.ibm.svg.im.iis.ds.admin.doc/topics/t\\_dachref\\_Capturing\\_Process\\_Meta\\_Data.html](https://www-01.ibm.com/support/knowledgecenter/SSZJPZ_11.3.0/com.ibm.svg.im.iis.ds.admin.doc/topics/t_dachref_Capturing_Process_Meta_Data.html)

**QUESTION NO: 18**

Which statement is TRUE about Balanced Optimization?

- A.** Balanced Optimization is installed with InfoSphere DataStage.
- B.** BalancedOptimization creates a parameter set called BalOpJAQLParams in the underlying project if it does not exist.
- C.** Balanced Optimization will change or optimize machine configurations, InfoSphere DataStage configurations, database configurations, or HDFS configurations.
- D.** Balanced optimizations are performed in a priority order. When there is ambiguity (for example, some processing could be performed either in a source or target database) processing is pushed into database sources.

**Answer: D**

Reference:[https://www-](https://www-01.ibm.com/support/knowledgecenter/SSZJPZ_11.5.0/com.ibm.svg.im.iis.ds.parjob.dev.doc/topics/whatbalanceoptimizationdoestoyourjobs.html)

[01.ibm.com/support/knowledgecenter/SSZJPZ\\_11.5.0/com.ibm.svg.im.iis.ds.parjob.dev.doc/topics/whatbalanceoptimizationdoestoyourjobs.html](https://www-01.ibm.com/support/knowledgecenter/SSZJPZ_11.5.0/com.ibm.svg.im.iis.ds.parjob.dev.doc/topics/whatbalanceoptimizationdoestoyourjobs.html)

**QUESTION NO: 19**

To run multiple copies of the same job within Director, which of the following must be supplied?

- A. Job name
- B. Invocation ID
- C. Parameter values
- D. Username and password

**Answer: C**

**Explanation:**

**QUESTION NO: 20**

Which statement about looping in sequences is TRUE?

- A. The Start Loop stage only supports numeric loops
- B. Numeric loops must increment by one unless you supply a parameter
- C. The current loop counter value can be passed to the stages in the loop
- D. The compiler will insert an End Loop as the last stage in the sequence if one is omitted

**Answer: A**

**Explanation:**

**QUESTION NO: 21**

Which of the following environment variables can help in verifying whether data is evenly partitioned across all nodes?

- A. \$OSH\_PRINT\_SCHEMAS
- B. \$APT\_RECORD\_COUNTS
- C. \$APT\_PARTITION\_COUNT
- D. \$APT\_DEBUG\_OPERATOR

**Answer: A**

Reference:<http://www.element61.be/e/resourc-detail.asp?ResourceId=188>

**QUESTION NO: 22**

Which of the following is TRUE about Transformer Stage when \$APT\_TRANSFORM\_COMPILE\_OLD\_NULL\_HANDLING is set?

- A. A Modify Operator is inserted at run time before a Transformer stage to handle null values
- B. If an input column that is used in the derivation expression of an output column contains a null value, then the resulting output column contains a null.
- C. If an input column that is used in the derivation expression of an output column contains a null value, then that row will be dropped or, if a reject link had been defined, rejected
- D. If an input column that is used in the derivation expression of an output column contains a null value, then the resulting output column will be calculated ignoring the Null value.

**Answer: C**

**Explanation:**

**QUESTION NO: 23**

Which of the following is the default data type for the Aggregator stage during calculation?

- A. Integer
- B. Double
- C. VarChar
- D. Decimal

**Answer: B**

Reference: <https://datastage4u.wordpress.com/2011/04/27/the-aggregator-stage-datastage/>

**QUESTION NO: 24**

Which of the following is TRUE about working with assets and artifacts?

- A. Rational Team Connect is not supported at all
- B. Information Server Manager has no logging capability
- C. You cannot lock and unlock assets in Rational Team Concert, regardless of tool used
- D. You must import the source control project into your own source control workspace in Information Server Manager before you can submit assets

**Answer: D**

Reference: <https://www->

01.ibm.com/support/knowledgecenter/SSZJPZ\_11.3.0/com.ibm.swg.im.iis.ds.deploy.help.doc/topics/importmanproj.html

**QUESTION NO: 25**

Which is NOT a valid native operator for OSH?

- A. Sort
- B. Copy
- C. Import
- D. Generator

**Answer: A**

**Explanation:**

**QUESTION NO: 26**

A job consist of Sequential File Stage -> Copy Stage using auto partitioning -> Sequential File stage. We need the target Sequential File stage rows to be in the same order as the source file. Which collection algorithm should be chosen in the target Sequential File stage?

- A. Auto
- B. Same
- C. Round robin
- D. Sorted merge

**Answer: D**

**Explanation:**

**QUESTION NO: 27**

Which restructure stage has a single reject link?

- A. Split Vector
- B. Column Import
- C. Make Subrecord
- D. Combine Records

**Answer: D**Reference:[http://www-](http://www-01.ibm.com/support/knowledgecenter/SSZJPZ_8.5.0/com.ibm.swg.im.iis.ds.parjob.dev.doc/topics/c_deeref_Column_Import_Stage.html)[01.ibm.com/support/knowledgecenter/SSZJPZ\\_8.5.0/com.ibm.swg.im.iis.ds.parjob.dev.doc/topics/c\\_deeref\\_Column\\_Import\\_Stage.html](http://www-01.ibm.com/support/knowledgecenter/SSZJPZ_8.5.0/com.ibm.swg.im.iis.ds.parjob.dev.doc/topics/c_deeref_Column_Import_Stage.html)**QUESTION NO: 28**

Which of the following will run the DataStage job in the Unix environment for the domain is1:9445, server is1 for the user srv\_etl?

- A. dsjob -domain is1:9445 -server is1 -user srv\_etl -run dstage1jTest101
- B. dsjob -domain is1:9445 -server is1 -userid srv\_etl -password {iisenc}infosphere -run dstage1jTest101
- C. dsjob -domain is1:9445 -server is1 -username srv\_etl -password iisenc\_infosphere -run dstage1 jTest101
- D. dsjob -domain is1:9445 -server is1 -user srv\_etl -password {iisenc}QHw0Q6i1zBuHhM3HcHPQrw= -run dstage1 jTest101

**Answer: B**Reference:[https://www-](https://www-01.ibm.com/support/knowledgecenter/SSZJPZ_11.3.0/com.ibm.swg.im.iis.mmi.doc/topics/t_importing_metadata_into_staging_area.html)[01.ibm.com/support/knowledgecenter/SSZJPZ\\_11.3.0/com.ibm.swg.im.iis.mmi.doc/topics/t\\_importing\\_metadata\\_into\\_staging\\_area.html](https://www-01.ibm.com/support/knowledgecenter/SSZJPZ_11.3.0/com.ibm.swg.im.iis.mmi.doc/topics/t_importing_metadata_into_staging_area.html)**QUESTION NO: 29**

How do you create a shared table definition from the DataStage client?

- A. Use the save button on the columns tab of the stage editor
- B. Use the shared table creation wizard from the repository window
- C. Do nothing. They are created automatically when table definitions are imported
- D. It cannot be done within the DataStage client. Use the InfoSphere Metadata Asset Manager (IMAM) utility instead.

**Answer: B****Explanation:****QUESTION NO: 30**

When building an UPDATE statement in SQL Query builder, which of the following is TRUE?

- A. Predicates cannot refine what rows are updated
- B. Table(s) referenced must have table definitions imported previously
- C. Column values can be job parameters or input columns but not expressions
- D. Columns to update must be selected individually from the column selection grid

**Answer: D**

**Explanation:**

### QUESTION NO: 31

You are experiencing performance issues for a given job. You are assigned the task of understanding what is happening at run time for that job.

What steps should you take to understand the job performance issues? (Choose two.)

- A. Use the resource estimation tool
- B. Use the performance analysis tool
- C. Replace Join stages by Lookup stages
- D. Run the job with \$APT\_TRACE\_RUN set to true
- E. Run the job with \$APT\_DUMP\_SCORE set to true

**Answer: B,E**

**Explanation:**

### QUESTION NO: 32

Your job consists of a DB2 Connector stage followed by a Sort stage followed by a Transformer stage followed by another DB2 Connector stage.

The following two Balanced Optimizer options have been selected:

- Push processing to data sources
- Push processing to data targets

The following two Balanced Optimizer options have NOT been selected:

- Push data reduction processing to data targets
- Push all processing into the(target)data server

Assuming the job design allows for maximum optimization, what does the optimized job design look like?

- A. Row Generator stage followed by a DB2 Connector stage
- B. DB2 Connector stage followed by a DB2 Connector stage
- C. DB2 stage followed by a Transformer stage followed by a DB2 Connector stage
- D. DB2 Connector stage followed by a Sort stage followed by a Transformer stage followed by another DB2 Connector stage

**Answer: A**

**Explanation:**

### QUESTION NO: 33

Which of the following is an FTP Collection method?

- A. Hash
- B. Same
- C. Random
- D. Sort Merge

**Answer: D**

**Explanation:**

### QUESTION NO: 34

Which of the following will determine the running row number within a group?

- A. Insert an Aggregator stage, hashing on the key column, prior to the Transformer stage
- B. Use a Surrogate Key Generator stage to generate the running row number prior to the Transformer stage
- C. Use a Remove Duplicates stage prior to the Transformer stage based on the key column, with the Duplicate set to retain = last option
- D. Use a Sort stage prior to the Transformer stage based on the key break column. Then, use the LastRowInGroup() function to determine the last row in a group

**Answer: D**

**Explanation:**

**QUESTION NO: 35**

Which of the following statements about checkpoint/restart is TRUE?

- A. The parallel framework does not support checkpoints inside jobs
- B. You must set the environment variable \$APT\_DISABLE\_COMBINATION to TRUE
- C. To perform checkpoint inside a parallel job, select the checkpoint option in each stage
- D. If the checkpoint/restart is turned on for a sequence job, all components of this sequence job must perform checkpoint recording

**Answer: A**

Reference: <https://books.google.com.pk/books?id=KxfCAgAAQBAJ&pg=PA267&lpg=PA267&dq=infosphere+checkpoint/restart+parallel+framework+does+not+support+checkpoints+inside+jobs&source=bl&ots=KUEtZqtgCe&sig=cN-tkK9MAbIlyhSzX5yvFTiq-ZQ&hl=en&sa=X&ved=0ahUKEwitq9rqnKLJAUEJJQKHb6pD6QQ6AEIGjAA#v=onepage&q=infosphere%20checkpoint%20restart%20parallel%20framework%20does%20not%20support%20checkpoints%20inside%20jobs&f=false>

**QUESTION NO: 36**

When you read or write to a sequential file, and wish to have a value be identified with DataStage as NULL, which of the following is the correct option?

- A. Set format's fill char option using the value
- B. Set string type default option using the value
- C. Set format's null field value option using the value
- D. Set \$APT\_IMPEXP\_REJECT\_NULLS using the value

**Answer: B**

Reference: [https://www-01.ibm.com/support/knowledgecenter/SSZJPZ\\_11.3.0/com.ibm.swg.im.iis.ds.serverjob.dev.doc/topics/r\\_dsvjbref\\_Defining\\_Sequential\\_File\\_Output\\_Data.html](https://www-01.ibm.com/support/knowledgecenter/SSZJPZ_11.3.0/com.ibm.swg.im.iis.ds.serverjob.dev.doc/topics/r_dsvjbref_Defining_Sequential_File_Output_Data.html)

**QUESTION NO: 37**

Which partitioning method requires a key?

- A. Entire
- B. Same



- C. Range
- D. Random

**Answer: B**

Reference:[https://www-](https://www-01.ibm.com/support/knowledgecenter/SSZJPZ_11.3.0/com.ibm.swg.im.iis.ds.parjob.dev.doc/topics/r_deeref_Partitioning_Tab_difference_stage.html)

01.ibm.com/support/knowledgecenter/SSZJPZ\_11.3.0/com.ibm.swg.im.iis.ds.parjob.dev.doc/topics/r\_deeref\_Partitioning\_Tab\_difference\_stage.html(third para)

#### QUESTION NO: 38

Record Count property is set to zero in Connector stage. How many rows are written out?

- A. All Rows
- B. One Row
- C. Zero Rows
- D. 2000 Rows

**Answer: A**

Reference:[http://www-](http://www-01.ibm.com/support/knowledgecenter/SSZJPZ_8.7.0/com.ibm.swg.im.iis.conn.db2db.help.doc/topics/props_input_db2.html?lang=en)

01.ibm.com/support/knowledgecenter/SSZJPZ\_8.7.0/com.ibm.swg.im.iis.conn.db2db.help.doc/topics/props\_input\_db2.html?lang=en

#### QUESTION NO: 39

Which statement is TRUE?

- A. The configuration file needs to be copied to all processing nodes
- B. The configuration file needs to be copied to the conductor nodes and all processing nodes
- C. The configuration file needs to be copied to all nodes to which the parallel engine has been configured
- D. The configuration file only needs to be copied to the conductor nodes from which parallel engine applications are started

**Answer: D**

Reference:[https://www-](https://www-01.ibm.com/support/knowledgecenter/SSZJPZ_11.3.0/com.ibm.swg.im.iis.ds.parjob.dev.doc/topics/c_deeref_The_Default_Path_Name_and_the_APT_CONFIG_FILE.html)

01.ibm.com/support/knowledgecenter/SSZJPZ\_11.3.0/com.ibm.swg.im.iis.ds.parjob.dev.doc/topics/c\_deeref\_The\_Default\_Path\_Name\_and\_the\_APT\_CONFIG\_FILE.html

**QUESTION NO: 40**

Which of the following is the correct schema format for a Time column?

- A. record (tField:time[hour:minute:second];)
- B. record (tField:nullable time[;];)
- C. record (tField:time[seconds];)
- D. record (tField:time[microseconds];)

**Answer: C**

Reference:[https://www-](https://www-01.ibm.com/support/knowledgecenter/SSZJPZ_11.3.0/com.ibm.swg.im.iis.ds.parjob.dev.doc/topics/r_deeref_Time_Columns.html)

[01.ibm.com/support/knowledgecenter/SSZJPZ\\_11.3.0/com.ibm.swg.im.iis.ds.parjob.dev.doc/topics/r\\_deeref\\_Time\\_Columns.html](https://www-01.ibm.com/support/knowledgecenter/SSZJPZ_11.3.0/com.ibm.swg.im.iis.ds.parjob.dev.doc/topics/r_deeref_Time_Columns.html)

**QUESTION NO: 41**

Which statement about shared containers is TRUE?

- A. A shared container is an independently compiled unit
- B. A local container can be converted to a shared container
- C. A shared container can be converted to a local container
- D. A container cannot be created by selecting a group of stages and links in a job

**Answer: B**

Reference:[https://www-](https://www-01.ibm.com/support/knowledgecenter/SSZJPZ_11.3.0/com.ibm.swg.im.iis.ds.design.doc/topics/t_ddesref_Converting_Containers.html)

[01.ibm.com/support/knowledgecenter/SSZJPZ\\_11.3.0/com.ibm.swg.im.iis.ds.design.doc/topics/t\\_ddesref\\_Converting\\_Containers.html](https://www-01.ibm.com/support/knowledgecenter/SSZJPZ_11.3.0/com.ibm.swg.im.iis.ds.design.doc/topics/t_ddesref_Converting_Containers.html)

**NOTE: Both B and C are correct according to the reference provided above.**

**QUESTION NO: 42**

A job is designed with 3 Join stages in sequence.

Join\_1 keys are "Account", "Customer" and "PO\_Date"

Join\_2 keys are "Account", "Customer" and "Txn"

Join\_3 keys are "Account", "Product\_CD" and "Txn"

Which of the following will lead to the best run time performance?

**A.** Left links are Hash partitioned on "Account" for all joins

Right links are Hash partitioned on "Account" for all joins

**B.** Both left and right links are Hash partitioned as follows:

Join\_1 by "Account", "Customer" and "PO\_Date"

Join\_2 by "Account", "Customer" and "Txn"

Join\_3 by "Account", "Product\_CD" and "Txn"

**C.** Both left and right links are Hash partitioned as follows:

Join\_1 by "Account" and "Customer"

Join\_2 by "Account" and "Customer"

Join\_3 by "Account"

**D.** Left links are Hash partitioned on "Account" for the first two joins and on "Product\_CD" for the third.

Right links are Hash partitioned on "Account" for all joins

**Answer: A**

**Explanation:**

#### **QUESTION NO: 43**

You want to retain the record with the largest value in the TotalAmount column for each CustID and ProductType using a Remove Duplicates stage. How can this be accomplished?

**A.** Hash partition on TotalAmount. Sort on CustID, ProductType and TotalAmount

**B.** Hash partition on ProductType. Sort on CustID, ProductType and TotalAmount

**C.** Hash partition on CustID and ProductType. Sort on CustID, ProductType and TotalAmount

**D.** Hash partition on CustID, ProductType and TotalAmount. Sort on CustID, ProductType and TotalAmount

**Answer: C**

**Explanation:**

#### **QUESTION NO: 44**

Which client Tool is used to export environment variables from a Project?

**A.** InfoSphere DataStage Director

- B. InfoSphere DataStage Manager
- C. InfoSphere DataStage Designer
- D. InfoSphere DataStage Administrator

**Answer: D**

Reference: [https://www-](https://www-01.ibm.com/support/knowledgecenter/SSZJPZ_11.3.0/com.ibm.swg.im.iis.productization.iisinfsv.migrate.doc/topics/a_merging_ds_settings_files.html)

[01.ibm.com/support/knowledgecenter/SSZJPZ\\_11.3.0/com.ibm.swg.im.iis.productization.iisinfsv.migrate.doc/topics/a\\_merging\\_ds\\_settings\\_files.html](https://www-01.ibm.com/support/knowledgecenter/SSZJPZ_11.3.0/com.ibm.swg.im.iis.productization.iisinfsv.migrate.doc/topics/a_merging_ds_settings_files.html)

#### **QUESTION NO: 45**

What COBOL data type is defined by Decimal data within the Complex Flat File stage?

- A. COMP
- B. COMP-1
- C. COMP-2
- D. COMP-3

**Answer: C**

**Explanation:**

#### **QUESTION NO: 46**

Which of the following locations will allow you to obtain a job's runtime logs? (Choose two.)

- A. Designer
- B. ISManager
- C. Workload Manager
- D. Operations Console
- E. Performance Monitor

**Answer: C,E**

**Explanation:**

#### **QUESTION NO: 47**

In order to use Cognos TM1 Connector, which statement is TRUE?

- A. Installing the Cognos TM1 API component alone is sufficient.
- B. Import the IBM Cognos TM1 certificate and create a property file that stores truststore password
- C. Install the Cognos TM1 API component and create a property file that storestruststore password
- D. Install theCognos TM1 API component and import the IBM Cognos TM1 certificate and create a property file that stores truststore password

**Answer: D**

Reference:[https://www-](https://www-01.ibm.com/support/knowledgecenter/SSZJPZ_11.3.0/com.ibm.swg.im.iis.conn.tm1.usage.doc/topics/tm1_installing_configuring.html)

[01.ibm.com/support/knowledgecenter/SSZJPZ\\_11.3.0/com.ibm.swg.im.iis.conn.tm1.usage.doc/topics/tm1\\_installing\\_configuring.html](https://www-01.ibm.com/support/knowledgecenter/SSZJPZ_11.3.0/com.ibm.swg.im.iis.conn.tm1.usage.doc/topics/tm1_installing_configuring.html)

#### QUESTION NO: 48

Your job aggregates data before writing the results out to a DB2 table. You have since learned that this job will be required to aggregate very large amounts of data. To ensure high performance you create a new, non-default configuration file for the job that defines a node pool named “highperfnodes” that includes only nodes with very high processing power.

What additional design changes do you need to make to the job to ensure that it aggregates the data using the “highperfnodes” pool? (Choose two.)

- A. Select the “highperfnodes” pool in the Execution tab of the Job Properties window
- B. Add the \$APT\_CONFIG\_FILE environment variable as an additional job parameter
- C. Add a Sort stage before the Aggregator stage to sort the data before the data is aggregated
- D. Change properties in the Aggregator stage to force it to use the nodes in the appropriate pool
- E. Change properties in the Aggregator stage to force it to use the new non-default configuration file

**Answer: A,D**

**Explanation:**

#### QUESTION NO: 49

Parallel job column definitions have an SQL type associated with them. Which of the following is TRUE?

- A. Use the SQL type when specifying a schema via a file

- B. The SQL type is what the parallel job data set understands
- C. Use the Parallel tab of the Edit Column Meta Data dialog box to view the SQL type
- D. The SQL type is mapped to an underlying data type that the parallel job data set understands

**Answer: C**

Reference:[https://www-](https://www-01.ibm.com/support/knowledgecenter/SSZJPZ_9.1.0/com.ibm.swg.im.iis.ds.parjob.dev.doc/topics/c_deeref_Data_Types.html)

[01.ibm.com/support/knowledgecenter/SSZJPZ\\_9.1.0/com.ibm.swg.im.iis.ds.parjob.dev.doc/topics/c\\_deeref\\_Data\\_Types.html](https://www-01.ibm.com/support/knowledgecenter/SSZJPZ_9.1.0/com.ibm.swg.im.iis.ds.parjob.dev.doc/topics/c_deeref_Data_Types.html)

#### QUESTION NO: 50

A Parameter Set is a named object that can contain which of the following?

- A. Multiple parameters and only one value file
- B. Only one parameter and only one value file
- C. Multiple parameters and multiple value files
- D. Only one parameter and multiple value files

**Answer: D**

**Explanation:**

#### QUESTION NO: 51

Which Slowly Changing Dimension (SCD) stage statement is TRUE?

- A. Surrogate keys are used to join a dimension table to a fact table in a normalized schema database
- B. Each SCD stage processes multiple dimensions and performs lookups by using an equality matching
- C. Purpose codes are part of the table metadata that the SCD stage propagates to the dimension insert link.
- D. Actual dimensions changes are applied to the lookup table in memory and are mirrored to the dimension update link

**Answer: B**

Reference:[https://www-](https://www-01.ibm.com/support/knowledgecenter/SSZJPZ_11.3.0/com.ibm.swg.im.iis.ds.parjob.dev.doc/topics/c_parjdev_Slowly_Changing_Dimension_Stage.html)

[01.ibm.com/support/knowledgecenter/SSZJPZ\\_11.3.0/com.ibm.swg.im.iis.ds.parjob.dev.doc/topics/c\\_parjdev\\_Slowly\\_Changing\\_Dimension\\_Stage.html](https://www-01.ibm.com/support/knowledgecenter/SSZJPZ_11.3.0/com.ibm.swg.im.iis.ds.parjob.dev.doc/topics/c_parjdev_Slowly_Changing_Dimension_Stage.html)

**QUESTION NO: 52**

Which of the following is NOT a valid use of stage variables?

- A. Storing values to be used in both derivations and constraints
- B. Storing values that can be referenced by name in downstream stages
- C. Storing values from one row to compare with values in the next row read
- D. Storing the result on an expression to be used in multiple output columns

**Answer: D**

**Explanation:**

**QUESTION NO: 53**

By default, how much internal memory does the Sort use per partition?

- A. 10MB
- B. 20MB
- C. 25MB
- D. 30MB

**Answer: B**

Reference:<https://datastage4u.wordpress.com/2011/04/26/sorting-in-datastage/>

**QUESTION NO: 54**

The encrypt.sh or the encrypt.bat script can be used to do which of the following?

- A. Secure sensitive personal data
- B. To set up credentials files used by the dsjob command
- C. Assisting in decoding encrypted rows of input during debugging
- D. Assisting in preparing encrypted rows of output during job execution

**Answer: D**

Reference:[https://www-01.ibm.com/support/knowledgecenter/SSZJPZ\\_11.3.0/com.ibm.swg.im.iis.conn.filecon.usage.doc/topics/filecon\\_t\\_enable\\_ssl\\_connect.html](https://www-01.ibm.com/support/knowledgecenter/SSZJPZ_11.3.0/com.ibm.swg.im.iis.conn.filecon.usage.doc/topics/filecon_t_enable_ssl_connect.html)

**QUESTION NO: 55**

The APT\_SubProcessOperator is used for what purpose?

- A. It allows you to incorporate a third-party executable into the framework
- B. It provides the capability to break predefined operators into sub processes
- C. It provides the capability to define custom operators at the sub process level
- D. It allows you to incorporate composite operators, which contain more than one operator

**Answer: A**

Reference: [https://www-](https://www-01.ibm.com/support/knowledgecenter/SSZJPZ_11.3.0/com.ibm.swg.im.iis.ds.pxop.dev.doc/topics/creatingopers.html)

[01.ibm.com/support/knowledgecenter/SSZJPZ\\_11.3.0/com.ibm.swg.im.iis.ds.pxop.dev.doc/topics/creatingopers.html](https://www-01.ibm.com/support/knowledgecenter/SSZJPZ_11.3.0/com.ibm.swg.im.iis.ds.pxop.dev.doc/topics/creatingopers.html)

**QUESTION NO: 56**

Which one of the following stages requires a schema file when using Runtime Column Propagation?

- A. Modify Stage
- B. Data Set Stage
- C. Transformer Stage
- D. Sequential File Stage

**Answer: D**

Reference: [https://www-](https://www-01.ibm.com/support/knowledgecenter/SSZJPZ_11.3.0/com.ibm.swg.im.iis.ds.parjob.dev.doc/topics/c_deeref_using_rcp_with_sequential_stages.html)

[01.ibm.com/support/knowledgecenter/SSZJPZ\\_11.3.0/com.ibm.swg.im.iis.ds.parjob.dev.doc/topics/c\\_deeref\\_using\\_rcp\\_with\\_sequential\\_stages.html](https://www-01.ibm.com/support/knowledgecenter/SSZJPZ_11.3.0/com.ibm.swg.im.iis.ds.parjob.dev.doc/topics/c_deeref_using_rcp_with_sequential_stages.html)

**QUESTION NO: 57**

Which one of the following is NOT an XML Pack stage?

- A. XMLInput
- B. XML Output
- C. XML Connector



**D. XML Transformer****Answer: C**Reference:<http://www.ibm.com/developerworks/data/library/techarticle/dm-1103datastages/>**QUESTION NO: 58**

Archive files can contain assets from multiple exports of multiple tools. When importing into a project from an archive file with the istool command, which order of asset types below would yield the best performance?

- A.** Users and groups,  
Common metadata,  
InfoSphere DataStage and QualityStage assets,  
Reports,  
Custom attributes for InfoSphere Information Governance Catalog
- B.** Common metadata,  
Users and groups,  
Custom attributes for InfoSphere Information Governance Catalog,  
InfoSphere DataStage and QualityStage assets,  
Reports
- C.** Common metadata,  
Users and groups,  
Custom attributes for InfoSphere Information Governance Catalog,  
InfoSphere Data Stage and QualityStage assets
- D.** Users and groups,  
Common metadata,  
InfoSphere DataStage and QualityStage assets,  
Custom attributes for InfoSphere Information Governance Catalog,  
Reports

**Answer: A****Explanation:****QUESTION NO: 59**

In your project there is a top level Sequencer job which has multiple sub sequencers and jobs. You have to move this Sequencer job to a new project. How do you determine which objects have to be exported?

- A. Select top level sequencer job and click on "Export" option
- B. Select top level sequencer job and click on "Find dependencies" option
- C. Select top level sequencer job and click on "Find dependencies (deep)" option
- D. Select top level sequencer job and click on "Edit->Job Properties -> Dependencies"

**Answer: D**

**Explanation:**

#### **QUESTION NO: 60**

For very large records, you may need to set the following environment variable with an appropriate value in order to allow the job to run successfully:

- A. \$APT\_MONITOR\_SIZE
- B. \$APT\_RECORD\_COUNTS
- C. \$APT\_DISABLE\_COMBINATION
- D. \$APT\_DEFAULT\_TRANSPORT\_BLOCK\_SIZE

**Answer: D**

**Explanation:**

#### **QUESTION NO: 61**

Which of the following is TRUE?

- A. The Modify stage can keep or drop records
- B. The DB2 Connector stage can have, at most, one input link
- C. The Copy stage can be used for implicit data type conversions
- D. When runtime column propagation is enabled, you can use output mapping on a stage to rename or drop columns

**Answer: D**

Reference:[https://www-](https://www-01.ibm.com/support/knowledgecenter/SSZJPZ_9.1.0/com.ibm.swg.im.iis.conn.oracon.usage.doc/topics/r_runtime_column_propagation.html)

[01.ibm.com/support/knowledgecenter/SSZJPZ\\_9.1.0/com.ibm.swg.im.iis.conn.oracon.usage.doc/topics/r\\_runtime\\_column\\_propagation.html](https://www-01.ibm.com/support/knowledgecenter/SSZJPZ_9.1.0/com.ibm.swg.im.iis.conn.oracon.usage.doc/topics/r_runtime_column_propagation.html)(Usage).

#### **QUESTION NO: 62**

Which Connector Stage doesn't support reject Link

- A. DB2 Connector
- B. ODBC Connector
- C. Oracle Connector
- D. Netezza Connector

**Answer: B**

**Explanation:** Reject links are not supported by any connectivity source stage. This includes the Px Sybase, Px ODBC, Px DB2Z, Px Classic Federation stages, Px DB2 and Px Oracle stages.

### QUESTION NO: 63

Select the correct command to reset a password to Info1234 for user srv\_etl in the Information Server internal registry, in the Unix environment.

- A. iisAdmin.sh -user srv\_etl -password Info1234
- B. iisAdmin.sh -user -userid srv\_etl -password Info1234
- C. SessionAdmin.sh -user -userid srv\_etl -password Info1234
- D. DirectoryAdmin.sh -user -userid srv\_etl -password Info1234

**Answer: C**

**Explanation:**

### QUESTION NO: 64

Which of the following statements about real time job design is TRUE?

- A. DSJobInvocationId is not required for the target sequential file.
- B. A non-Multiple Instance DataStage job can be activated for ISD service.
- C. A DataStage job must have an ISD Input stage, but an ISD Output stage is not required.
- D. The Information Services Director server starts job instances on one or more DataStage servers for load balancing and scalability.

**Answer: D**

Reference: [https://www-](https://www-01.ibm.com/support/knowledgecenter/SSZJPZ_11.5.0/com.ibm.swg.im.iis.infoservdir.user.doc/topics/c_isd_user_ds_qs_job_topologies.html)

01.ibm.com/support/knowledgecenter/SSZJPZ\_11.5.0/com.ibm.swg.im.iis.infoservdir.user.doc/topics/c\_isd\_user\_ds\_qs\_job\_topologies.html(See 2nd paragraph).

