



**Certified International Business Intelligence Associate (CIBIA)**

***CERTIFICATE IN BUSINESS INTELLIGENCE  
REVIEWER***



1. What does ETL stand for?
  - a. Extract, Transform and Load
  - b. Extract, Test and Load
  - c. Edit, Test, and List
  - d. Extend, Transform, and Load
2. Reading data from database is part of
  - a. Extract process
  - b. Transform process
  - c. Load process
  - d. Source data
3. Changing data type from string to number is part of
  - a. Extract process
  - b. Transform process
  - c. Load process
  - d. Metadata
4. Writing data into Microsoft Excel Spreadsheet is part of
  - a. Extract process
  - b. Transform process
  - c. Load process
  - d. Writing process
5. The following task is not part of transform process
  - a. Transpose
  - b. Aggregate
  - c. Read text file
  - d. Split a column into multiple columns
6. The task that is not done by transformation
  - a. Flow control
  - b. Change metadata
  - c. Moving rows from source to target
  - d. Reading data from Internet
7. Which statement is true?
  - a. Steps in a job are executed in parallel
  - b. All the steps in a transformation are executed in order
  - c. All the steps in a transformation are executed in parallel
  - d. All the steps in a transformation and job are executed in parallel



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8. Which statement is true?
  - a. Transformation can execute another transformation
  - b. Transformation can execute a job
  - c. Job can not execute another job
  - d. Job can execute transformation
9. The keyboard shortcut to open a new transformation
  - a. Ctrl + T
  - b. Ctrl + N
  - c. Ctrl + Alt + T
  - d. Ctrl + Alt + N
10. The keyboard shortcut to open a new job
  - a. Ctrl + J
  - b. Ctrl + N
  - c. Ctrl + Alt + J
  - d. Ctrl + Alt + N
11. What is Spoon?
  - a. Spoon is a graphical user interface (GUI) that allows you to design, run, and test transformations and jobs
  - b. Spoon is a graphical user interface (GUI) that allows you to monitoring data
  - c. Spoon is a command line tool that that allows you to design, run, and test transformations and jobs
  - d. Spoon is a command line tool to execute a job
12. What is Kitchen?
  - a. Kitchen is a graphical user interface (GUI) that allows you to design, run, and test transformations and jobs
  - b. Kitchen is a command line tool that that allows you to design, run, and test transformations and jobs
  - c. Kitchen is a command line tool that that allows you to execute a job
  - d. Kitchen is a command line tool that that allows you to execute a transformation
13. What is Pan?
  - a. Pan is a graphical user interface (GUI) that allows you to design, run, and test transformations and jobs
  - b. Pan is a command line tool that that allows you to design, run, and test transformations and jobs
  - c. Pan is a command line tool that that allows you to execute a job
  - d. Pan is a command line tool that that allows you to execute a transformation



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14. There are four fields come into "Select Value" step, they are A, B, C and D. If we fill "Fields" column in "Select and Alter" tab with A and B. Which one of the following configuration will cause the same result.
- Fill "Fields" column in "Select and Alter" with C and D
  - Fill "Field to remove" column in "Remove" tab with C and D
  - Fill "Fields to alter the meta-data for" column in "Meta-data" tab with A and B
  - Fill "Field to remove" column in "Remove" tab with A and B
15. One of the columns that come into "Filter row" step is named "TF" which its contents is TRUE or FALSE. If we configure filter as  $TF = Y$ , which one of the following configuration will cause the same result.
- TF TRUE
  - TF  $\neq$  N
  - TF = N
  - TF IS NOT NULL
16. Look at the figure. The rows that may go to "Dummy 1" step are:
- ID: 1,2,3,4,5,6,7,8
  - ID: 1,2,3,4
  - ID: 1,3,5,7
  - ID: 5,6,7,8

**Data Grid Preview Result**

#	ID
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8

Close

(Note: image file name is image\_01.png)

17. Look at the figure. The rows that will go to "Dummy 1" step are:
- ID: 1,2,3,4,5,6,7,8
  - ID: 1,2,3,4



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- c. ID: 1,3,5,7
- d. ID: 5,6,7,8



**Data Grid Preview Result**

#	ID
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8

(Note: image file name is image\_02.png)

18. Look at the figure that show us the contents of a CSV file. What character does become a delimiter?
- a. Semicolon (;)
  - b. Comma (,)
  - c. Colon (:)
  - d. Space ( )

```
"WAST";"Dta";"Dts";"QFE";"RF";"RH";"S";"SR";"Sx";"T"  
2016-11-28 10:00:00;96;36;1011.8;0;27.8;4;980;6;25.36  
2016-11-28 10:10:00;218;79;1011.8;0;26.8;3;970;5;26.12  
2016-11-28 10:20:00;324;42;1011.7;0;23.8;4;1004;7;26.37  
2016-11-28 10:30:00;26;32;1011.7;0;23.8;4;1015;7;26.98  
2016-11-28 10:40:00;29;24;1011.7;0;24.4;4;1020;8;26.54  
2016-11-28 10:50:00;294;38;1011.6;0;21.3;4;1022;5;27.33  
2016-11-28 11:00:00;325;32;1011.5;0;18.9;4;1038;7;27.74  
2016-11-28 11:10:00;317;31;1011.4;0;20.4;6;1044;9;29.03  
2016-11-28 11:20:00;296;41;1011.4;0;21.6;4;1063;9;28.32  
2016-11-28 11:30:00;281;35;1011.4;0;22.3;6;1068;9;29.12  
2016-11-28 11:40:00;268;29;1011.4;0;20.5;6;1058;10;29.62
```

(Note: image file name is image\_03.png)



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19. "Microsoft Excel Input" has mandatory tabs, they are:
  - a. Files, Sheet, Content
  - b. Files, Sheets, Fields
  - c. Files and Sheet
  - d. Sheet and Fields
20. "Microsoft Excel Input" step has tabs which their name begin with exclamation mark (!). What is that means?
  - a. No meaning at all
  - b. They are mandatory tabs
  - c. We can ignore the tabs
  - d. Error sign
21. When you read Microsoft Excel 2007 format file (xlsx), what spread sheet type (engine) you must be used?
  - a. Excel 97-2003 XLS (JXL)
  - b. Excel 2007 XLSX (Apache POI)
  - c. Open Office ODS (ODFDOM)
  - d. All answers are correct
22. "Excel 2007 XLSX (Apache POI)" engine in "Microsoft Excel Input" can be used to read:
  - a. Microsoft Excel 97-2003 (xls) only
  - b. Microsoft Excel 2007 (xlsx) only
  - c. Open Office (ods) only
  - d. Microsoft Excel 97-2003 (xls) and Microsoft Excel 2007 (xlsx)
23. What does this error message mean when you tried to connect to MySQL database: "Driver class 'org.gjt.mm.mysql.Driver' could not be found, make sure the 'MySQL' driver (jar file) is installed"
  - a. The username and password do not match
  - b. No JDBC connector found, you have to copy the JDBC connector to the library folder
  - c. Database name does not found
  - d. Hostname does not found
24. The Pentaho Data Integration is written on the Java platform, and for the Pentaho Data Integration to work properly, you need to make sure that the JAVA\_HOME environment variable has been set up properly. The JAVA\_HOME must be pointed to:
  - a. JDK installation folder
  - b. Pentaho installation folder
  - c. Pentaho lib folder
  - d. System folder
25. How to install Pentaho Data Integration?
  - a. Run setup.exe, and follow the instructions in the installation wizard.



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- b. Run install.bat and wait until the installation process finishes.
  - c. Run Kichen.bat
  - d. Pentaho Data Integration does not require installation. Simply unpack the zip file into a folder of your choice.
26. What is the alias name of Pentaho Data Integration (PDI) project
- a. Kettle
  - b. Spoon
  - c. Pentaho Reporting
  - d. Carte
27. Pentaho Data Integration is a .... tool
- a. OLTP
  - b. OLAP
  - c. Database
  - d. ETL
28. Which application is not a part of Pentaho Data Integration?
- a. Carte
  - b. Spoon
  - c. Schema Workbench
  - d. Pan
29. What is the prerequisite application for PDI
- a. .Net
  - b. Java
  - c. MySQL
  - d. Zip
30. Which one is not a job evaluation condition?
- a. Unconditional
  - b. Follow when result is true
  - c. Follow when result is false
  - d. Follow when error is false
31. Which statement is false?
- a. Job can executes a transformation
  - b. Transformation can execute another transformation
  - c. Kitchen executes a job
  - d. Pan executes a transformation
32. Every job must have this step.
- a. Job
  - b. Start
  - c. Success



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- d. Dummy
33. What is the file extension for Pentaho Data Integration transformation.
- .kjb
  - .xml
  - .ktr
  - .bat
34. What is the file extension for Pentaho Data Integration job.
- .kjb
  - .xml
  - .ktr
  - .bat
35. The following concept is not available for a job
- Hop
  - Step
  - Row
  - Variable
36. How do you include a file as attachment in job's Mail step?
- By listing it directly in the step configuration
  - Attach General file option
  - Mail Validator step
  - Get File step
37. Which step is not part of Pentaho Data Integration transformation?
- Microsoft Excel Input
  - Google Analytics
  - Start
  - LDAP Input
38. What database can be accessed by Pentaho Data Integration
- Oracle
  - SQL Server
  - MySQL
  - Any database that is mentioned here
39. What option do we use in "Table Output" step to create or alter a table?
- Truncate Table
  - Partition data over tables
  - SQL
  - Specify database fields





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Step name: Table output

Connection: [Dropdown] [Edit...] [New...] [Wizard...]

Target schema: [Dropdown] [Browse...]

Target table: [Dropdown] [Browse...]

Commit size: 1000

Truncate table:

Ignore insert errors:

Specify database fields:

Main options | Database fields

Partition data over tables:

Partitioning field: [Dropdown]

Partition data per month:

Partition data per day:

Use batch update for inserts:

Is the name of the table defined in a field?:

Field that contains name of table: [Dropdown]

Store the tablename field:

Return auto-generated key:

Name of auto-generated key field: [Dropdown]

[Help] [OK] [Cancel] [SQL]

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40. If you want to transform columns into rows, what step do you use?
- a. Row Flattener
  - b. Split field to Rows
  - c. Row Normaliser
  - d. Row Denormaliser