Final Assessment

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Configuring Error Paths

1/1 point (graded)

Select the statement that completes the sentence. You are working on an ETL project that requires you to configure error paths. The error-handling option Fail component:

- [x] causes the data flow to fail completely.
- [ ] transforms failed data flows to completed tasks.
- [ ] uses a NULL value for its output.
- [ ] sends the entire row of data to its error destination.

✔

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Data Flow Task

1/1 point (graded)

You are working on the data flow task of an ETL project. What can you use within the data flow task to view errors in real time?

- [x] Data viewers
- [ ] Error output tables
- [ ] Metadata
- [ ] Conditional branch

✔

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Error Output Path

1/1 point (graded)

You are configuring an error output path for an ETL process. Select the statement that best describes how error paths are configured within the ETL process.

- [ ] They must be attached to the source, before the source is configured.
- [x] They originate from transformation tasks and point to destination components.
- [ ] They are configured on the Mappings page.
- [ ] They are configured to insert clean data into destinations.

✔

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OLE DB Source Editor

1/1 point (graded)

You are working with the OLE DB Source Editor. Select the actions that can be configured on the columns page:

- [ ] Configure error output paths.
- [ ] Filter out columns that cause errors.
- [x] Filter out columns that were part of the input.
- [ ] Configure data flow tasks.

✔

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Data Flow Transformations

1/1 point (graded)

You are configuring data flow transformations within an ETL process. Select the following configurations that are data flow transformations.

- [x] Lookup
- [x] Union All
- [x] Aggregate
- [x] Derived column
- [ ] Single join

Transformer

✔

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Performance

1/1 point (graded)

You are tuning data sources for performance issues within an ETL process that has several thousand of rows of data. Which option can you configure to increase performance?

- [x] Use sequence containers to process data in parallel.
- [ ] Transform large amounts of data directly from a file.
- [ ] Use implicit conversions.
- [ ] Use SSIS events to track progress.

✔

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Data Flow Task

1/1 point (graded)

Select the three statements that are true about a Data Flow Path in an SSIS Data Flow task.

- [x] Data Flow Paths allow you to connect Data Sources and Data Destination components.

- [ ] Data Flow Paths allow you to transform data types as data flows through it.
- [x] Data Flow Destinations need Metadata provided by a Data Flow Path before they can be configured.
- [x] Data Flow Paths allow you to connect Data Sources and Transformation components.
- [ ] The Data Flow Sources need Metadata provided by a Data Flow Path before they can be configured.

✔

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Derived Column Transformations

1/1 point (graded)

Select the three statements that are true about Derived Column Transformations in an SSIS Data Flow task.

- [ ] Derived Column Transformations are configured using SQL Programming expressions.
- [x] Derived Column Transformations allow you to convert the data type of an output column.
- [x] Derived Column Transformations allow you to combine data from multiple columns
- [x] Derived Column Transformations are configured using SSIS Programming expression.
- [ ] Derived Column Transformations will overwrite existing column data by default.

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Data Sources

1/1 point (graded)

Select the three statements that are true about Data Sources in an SSIS Data Flow task.

- [x] Data Sources required a Connection Manager.
- [x] Data Sources can use the results of a SQL select statement as a source of data
- [x] Data Sources can use the results of a SQL stored procedure as a source of data
- [ ] Data Sources can use the results of a SQL trigger as a source of data.
- [ ] Data Sources can use the results of a SQL Indexes as a source of data

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Applications

1/1 point (graded)

You are working on an ETL process. Select the three Microsoft applications that you can use for this process.

- [x] SQL Server
- [x] Visual Studio

- [ ] Analysis Server
- [ ] Exchange Server
- [x] Excel

✔

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Data Sources

1/1 point (graded)

You are in the planning stage of creating an ETL process. The company you are working for has various files that need to be used for the process. Select the three most commonly used sources of data for ETL processing.

- [x] CSV Files
- [x] XML files
- [x] Databases
- [ ] Emails
- [ ] Log files

✔

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Table Designs

1/1 point (graded)

You are creating an ETL process and need to select table design types to use for your project. Select the three types of table designs that are commonly used as part of ETL processing.

- [x] Dimension tables
- [x] Fact tables
- [x] Lookup tables
- [ ] Meta Data tables
- [ ] System tables

✔

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Transformations

1/1 point (graded)

You are working on an ETL process and need to decide the type of ETL transformations that will best meet the needs of the company you are working for. What are three types of ETL transformations that can be used in your ETL project?

- [x] Data Type Conversions
- [x] Combining data from multiple tables
- [x] Replacing abbreviated values with more descriptive values
- [ ] Restricting values using Foreign Key Constraints
- [ ] Creating indexes on one or more tables

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Full vs. Incremental Loading

1/1 point (graded)

You are working on a project and need to decide whether or not to use incremental loading or the flush and fill technique. Select the two statements that describe the difference between the two techniques.

- [x] Incremental loading is more complex to program than Flush and Fill.
- [ ] Incremental loading requires the tables to be truncated.
- [ ] Incremental loading is recommend when working with smaller tables.
- [x] Incremental loading is often used to track changes over time in Slow Changing Dimensions.

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Nulls

1/1 point (graded)

You are working on an ETL project that has null values that need addressing within the database. Select the three options are recommended for handing null values.

- [x] Replace null values with a foreign key value referencing a lookup table.
- [ ] Exclude the row of data containing a null.

- [ ] Replace null values with simple descriptive values.
- [x] Leave the null value as is when it is used as a measure.
- [ ] Replace the null value with zero.

✔

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Event Handlers

1/1 point (graded)

You are creating an ETL process for a company, and are configuring event handlers. Select the three statements that best describe how SSIS event handlers can be used within your process.

- [x] They can be used to respond to errors.
- [x] They can be used to monitor and log how a package is running.
- [ ] They can only include Control Flow tasks.
- [x] They can include both Control Flow tasks and Data Flow transformations.
- [ ] They can only include Data Flow transformations

✔

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The Control Flow Tab

1/1 point (graded)

You are working on an ETL process that another ETL developer has been working on before you joined the team. You find several sequence containers and tasks that are already connected on the Control Flow Tab. Select which item can be added to the Control Flow to help clarify what is happening on this tab.

- [x] Annotations
- [ ] Output rules
- [ ] Mapping
- [ ] SQL tasks
- [ ] Sequence containers

✔

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Stored Procedures

1/1 point (graded)

You are configuring stored procedure parameters. Select the three statements below that best describe how stored procedure parameters are configured.

- [ ] They must include the DECLARE keyword.
- [x] They default to an input parameter.
- [ ] They default to an output parameter.
- [x] They must define their data type.
- [x] Output parameters must use the keywords OUT or OUTPUT.

- [ ] Input parameters must use the keyword IN or INPUT.

✔

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Encapsulation

1/1 point (graded)

You are creating an ETL process. You need to encapsulate different types of programming statements into a single programmatic structure. Select the option below that describes how this can be performed.

- [ ] Combine the statements to be encapsulated within the view.
- [x] Combine the statements into stored procedures.
- [ ] Use the SQL GO command to link the transformations together.
- [ ] Use the ENCAPSULATE keyword.

✔

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Try-Catch

1/1 point (graded)

You are working with try-catch blocks within your ETL process. Which four of the following statements best describe how try-catch blocks can be used?

- [x] Try-catch blocks can include multiple statements.

- [ ] Try-catch blocks can only include a single statement.
- [x] Try-catch blocks can include transactions.
- [ ] Variables declared in try-catch blocks can only be used inside of the try-catch block.
- [x] Try-catch blocks can be used inside of stored procedures.
- [x] Try-catch blocks can be use outside of stored procedures.

✔

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Truncate Table

1/1 point (graded)

You are creating an ETL process that has a TRUNCATE TABLE SQL statement. Select the option below that best describes what this statement does.

- [x] Removes all rows from a table, but the table structure remains.
- [ ] Removes all rows from a table after a specified number of rows.
- [ ] Removes the table definition in addition to its data.
- [ ] Removes all references to a table.

✔

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SQL Statements

0 points possible (ungraded)

You are working on an ETL process that has the following two tables.

```
Create Table Customers (Cust_id int Primary Key, Name varchar(45),
state varchar(36));

Create Table StateLookup (StateID int Primary Key, StateCode char(2),
StateName varchar(50));
```

Which two statements will successfully transform a two letter state code into a full state name?

- [x]
```
SELECT

[CustomerID] = [Cust_id]

, [CustomerName] = CAST([Name] as nVarchar(100))

, [CustomerState] = CASE CAST([state] as nVarchar(100))

WHEN 'CA' THEN 'California'

WHEN 'OR' THEN 'Oregon'

WHEN 'WA' THEN 'Washington'

END

FROM [Customers];

go
```


```
SELECT

[CustomerID] = [Cust_id]

, [CustomerName] = CAST([Name] as nVarchar(100))

, [CustomerState] = CASE CAST([state] as nVarchar(100))

WHEN 'California' THEN 'CA'

WHEN 'Oregon' THEN 'OR'

WHEN 'Washington' THEN 'WA'

END

FROM [Customers];

go
```

- [x]

```
SELECT

[CustomerID] = T1.[Cust_id]

, [CustomerName] = CAST(T1.[Name] as nVarchar(100))

, [CustomerState] = CAST(T2.[StateName] as nVarchar(100))

FROM [Customers] as T1 JOIN [StateLookup] as T2

ON T1.[State] = T2.[StateCode]

;

go
```

```
SELECT

[CustomerID] = T1.[Cust_id]

, [CustomerName] = CAST(T1.[Name] as nVarchar(100))

, [CustomerState] = CAST(T2.[StateName] as nVarchar(100))

FROM [Customers] as T1 JOIN [StateLookup] as T2

;

go
```

✔

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Logging

1/1 point (graded)

You are working on an ETL process. Which three of the following logging options can you use in your ETL Processing?

- [x] Insert data into a custom logging table using an SSIS Execute SQL task
- [x] Insert data into a custom logging table using an SSIS Event Handler
- [x] Enable and Configure SSIS logging on an SSIS package
- [ ] Configure a data source to include logging in a data flow task.
- [ ] Create a logging transformation in a data flow task.

✔

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Configuring a Log Provider

1/1 point (graded)
You are configuring SSIS logging. What is the first step you will need to take?

- [x] Add a new log by selecting a provider type.
- [ ] Select the events on the details tab.
- [ ] Select a File or Table from the options menu.
- [ ] Select the Log File path.

✔

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Importing SSIS Packages to SQL Server

1/1 point (graded)
You are importing SSIS packages to SQL Server. Which of the following three options are available for importing a package within SQL Server Management Studio?

- [x] The file system
- [x] The MSDB database.
- [x] The Integration Services Catalogs.
- [ ] The master database.

The SQL Server Agent.

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