



MCD-LEVEL1^{Q&As}

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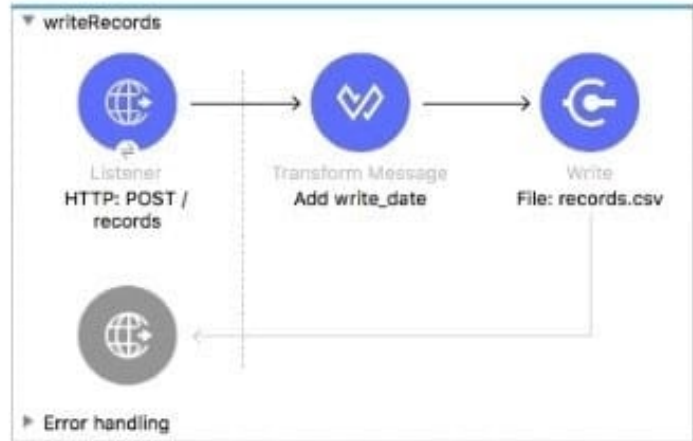


QUESTION 1

Refer to the exhibits.

Payload

```
{  
  "transaction_id": "SS-4848-44KK-4SYQ",  
  "account_id": "KA-382-SKD44",  
  "name": "Max Mule",  
  "position": "sell"  
}
```



```
<flow name="writeRecords" >  
  <http:listener doc:name="HTTP: POST /records" config-ref="HTTP_listener_config"  
    path="/records" allowedMethods="POST"/>  
  <ee:transform doc:name="Add write_date">  
    <ee:message >  
      <ee:set-payload ><![CDATA[%dw 2.0  
        output application/json  
        ---  
        payload ++ {"write_date": now()}]]>  
      </ee:set-payload>  
    </ee:message>  
  </ee:transform>  
  <file:write doc:name="File: records.csv" path="file-store/records.csv">  
    <file:content ><![CDATA#[[payload]]]></file:content>  
  </file:write>  
</flow>
```

What is written to the records.csv file when the flow executes?

- A. The JSON payload
- B. An error message
- C. Nothing
- D. The payload convert to CVS

Correct Answer: A

Transform Message Add write_date is covering payload in JSON format and same JSON payload is available to file write processor. However, if the payload is a different format (for example, not CSV), you can place the transformation inside the Write operation to generate content that will be written without producing a side effect on the message in transit. This is not done in this case. By default, the connector writes whatever is in the message payload. Hence JSON payload will be written to file.



QUESTION 2

Refer to the exhibits.



```
<flow name="processItems" >
  <http:listener doc:name="HTTP: POST /items" config-ref="HTTP_Listener_config" path="/items"/>
  <set-payload value="#[]" doc:name="Extract items array" />
  <validation:is-not-empty-collection doc:name="Is not empty collection" message="Payload is an empty collection []"/>
  <db:insert doc:name="ORDERS" config-ref="Database_Config">
    <db:sql ><![CDATA[INSERT INTO accounts]]></db:sql>
  </db:insert>
</flow>
<flow name="updateCustomerRecord" >
  <http:listener doc:name="HTTP: PATCH /email" config-ref="HTTP_Listener_config" path="/email"/>
  <set-payload value="#[]" doc:name="Extract email" />
  <validation:is-email doc:name="Is email" email="#[payload]" message="Not an email"/>
  <db:update doc:name="CUSTOMERS DB" config-ref="Database_Config">
    <db:sql ><![CDATA[UPDATE accounts]]></db:sql>
  </db:update>
</flow>
<error-handler name="global-error-handler" >
  <on-error-continue enableNotifications="true" logException="true" doc:name="On Error Continue" type="VALIDATION:EMPTY_COLLECTION">
    <set-payload value="#["Payload is an empty collection"]" doc:name="Set Payload" />
  </on-error-continue>
  <on-error-continue enableNotifications="true" logException="true" doc:name="On Error Continue" type="VALIDATION:INVALID_EMAIL">
    <set-payload value="#["Payload is not a valid email"]" doc:name="Set Payload" />
  </on-error-continue>
  <on-error-propagate enableNotifications="true" logException="true" doc:name="On Error Propagate" >
    <set-payload value="#[payload]" doc:name="Set Payload" />
  </on-error-propagate>
</error-handler>
```

The my-app xml file contains an Error Handler scope named "global-error-handler"

The Error Handler scope needs to be set to be the default error handler for every flow in the Mule application

Where and how should the value "global-error-handler" be added in the Mule project so that the Error Handler scope is the default error handler of the Mule application?

- A. In the mule-artifact json file, as the value of a key-value pair
- B. In the Validation folder as the value of a global element in the error-handling yml file
- C. In the pom.xml file, as the value of a global element



D. In the my-app.xml file, as an attribute of a configuration element

Correct Answer: D

QUESTION 3

Refer to the exhibits.



Set Payload x Console Problems

General

MIME Type

Metadata

Notes

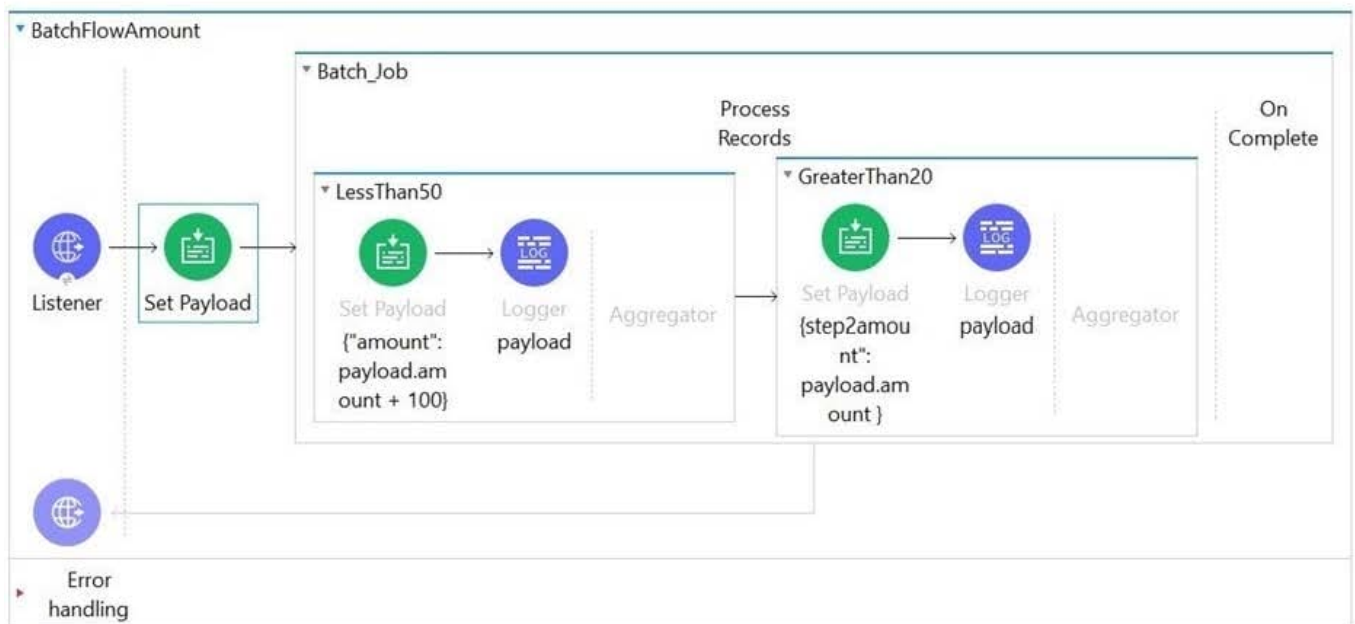
Help

There are no errors.

Display Name: Set Payload

Settings

Value: `#[[{ "name": "productA", "amount": 100, "price": "200" }, { "name": "productB", "amount": 40, "price": "400" }, { "name": "productC", "amount": 2, "price": "600" }]]`



```
<flow name="BatchFlowAmount" doc:id="083a47a4-3383-4939-a782-efc547a5bf1b" >
  <http:listener doc:name="Listener" doc:id="215b98ca-2aff-43e8-8c12-56239a47cd56" config-ref="HTTP Listener_config" path="/ba
  <set-payload value='#[[
  &#10; { "name": "productA", "amount": 100, "price": "200" },
  &#10; { "name": "productB", "amount": 40, "price": "400" },
  &#10; { "name": "productC", "amount": 2, "price": "600" }
  &#10; ]]' doc:name="Set Payload" doc:id="145a05c2-0c56-4688-92b4-0ffe51ce6c60" />
  <batch:job jobName="Batch_Job" doc:id="4836ee7a-f0c5-4717-a6d5-f6464c9c2b00" maxFailedRecords="-1">
    <batch:process-records >
      <batch:step name="LessThan50" acceptExpression="#[payload.amount &lt; 50]" acceptPolicy="ALL">
        <set-payload value='#[{"amount": payload.amount + 100}]' doc:name='{"amount": payload.amount + 100}' />
        <logger level="INFO" doc:name="payload" doc:id="57285f6a-757d-4f3c-85e9-d2c073a23e67" message="#[payload]" />
      </batch:step>
      <batch:step name="GreaterThan20" acceptExpression="#[payload.amount &gt; 20]" acceptPolicy="ALL">
        <set-payload value='#[{step2amount: payload.amount}]' doc:name='{step2amount": payload.amount}' />
        <logger level="INFO" doc:name="payload" doc:id="2b07ce22-6dd1-48cb-a084-354c3f040264" message="#[payload]" />
      </batch:step>
    </batch:process-records>
  </batch:job>
</flow>
```

The Batch Job scope contains two Batch Steps scopes with different accept expression.

The input payload is passed to the Batch Job scope.

After the entire payload is processed by the batch job scope, what messages have been logged by the Logger component?



- A. 1.{amount=140} 2.{amount=102} 3.{step2amount=100}
- B. 1.{amount=140} 2.{amount=102} 3.{step2amount=100} 4.{step2amount=40}
- C. 1.{amount=140} 2.{amount=102} 3.{step2amount=100} 4.{step2amount=140}
- D. 1.{amount=140} 2.{amount=102} 3.{step2amount=100} 4.{step2amount=140} 5.{step2amount=102}

Correct Answer: D

Lets understand this solution step by step.

1) Batch Step (Less than 50)

Accept expression for this batch step is less than 50. Hence elements which will go in this batch step are amount value 40 and 2. Hence output of logger in first batch step is {amount=140} {amount=102}

2) Batch Step (Greater than 20)

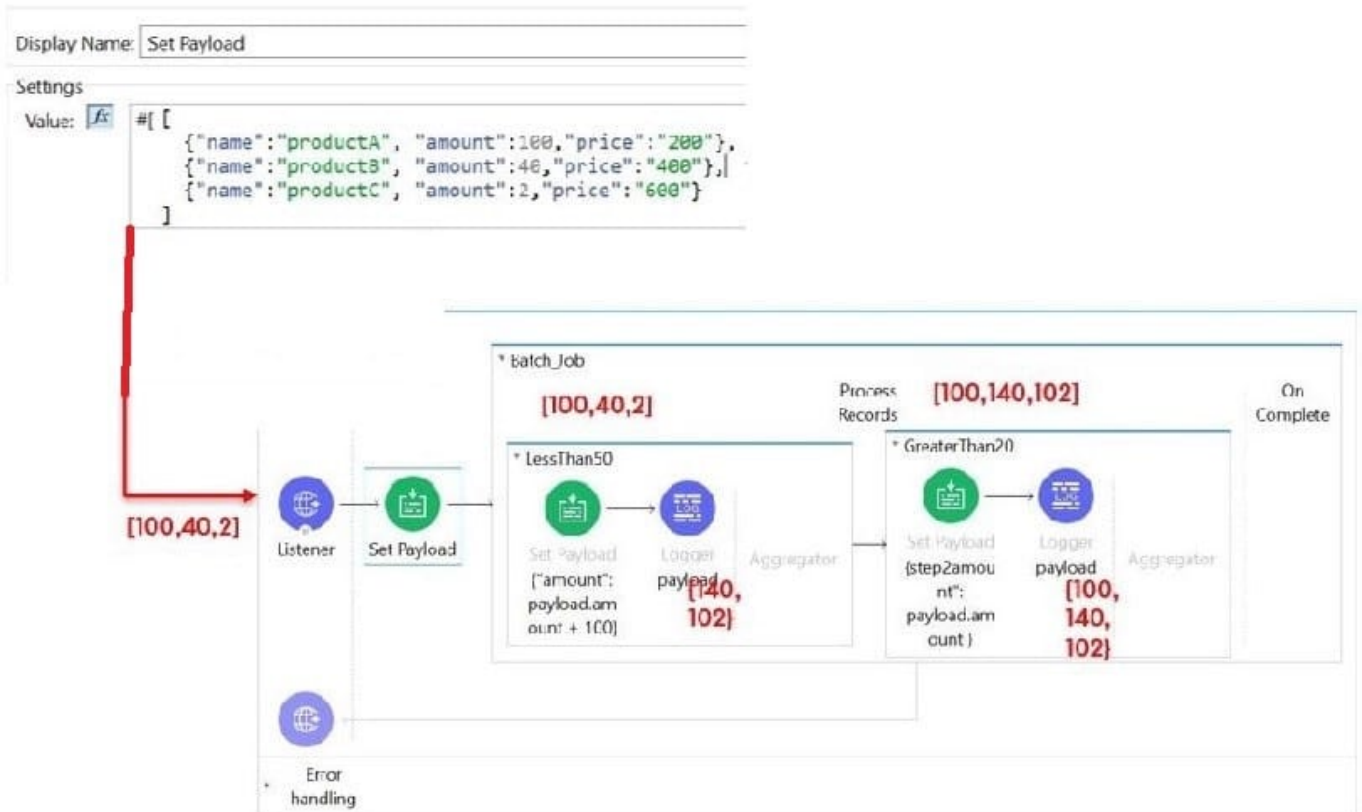
Accept condition for this batch step is greater than 20. Note that input amount values for this batch step are 100 , 140 and 102 (last two values have been updated in batch step less than 50) As all values satisfy this condition out put of second

logger is {step2amount=100}

{step2amount=140}

{step2amount=102}

Hence correct answer to this question is



`{amount=140} {amount=102} {step2amount=100} {step2amount=140} {step2amount=102}`

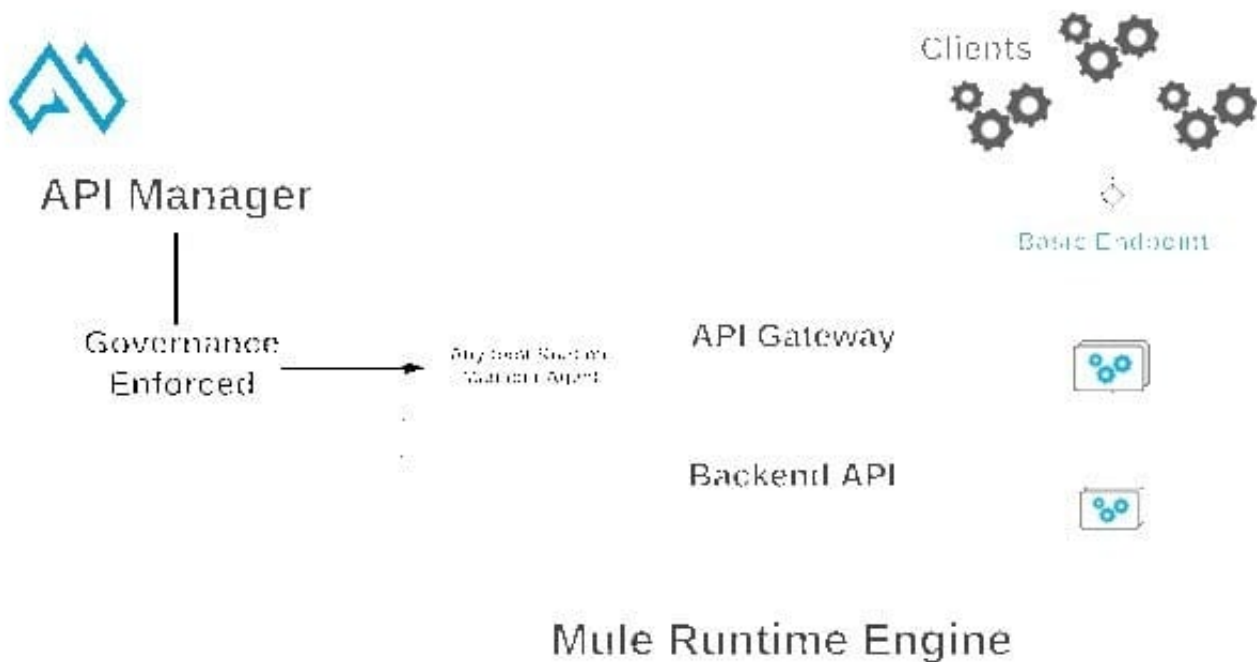
QUESTION 4

What is not the function of API Gateway ?

- A. Determine which traffic is authorized to pass through the API to backend services
- B. Meter the traffic flowing through
- C. Logs all transactions , collecting and tracking analytics data
- D. Specify throttling , security and other policies

Correct Answer: D

Correct answer is Specify throttling , security and other policies MuleSoft Doc Ref : <https://docs.mulesoft.com/api-manager/2.x/api-gateway-capabilities-mule4> API Gateway is responsible for below functions. 1) Determine which traffic is authorized 2) Meter the traffic 3) Logs transaction 4) Apply throttling and other policies (Not specifying. These are specified in API Manager)



QUESTION 5

In the Database On Table Row operation, what does the Watermark column enable the On Table Row operation to do?

- A. To avoid duplicate processing of records in a database.
- B. To delete the most recent records retrieved from a database to enable database caching
- C. To enable duplicate processing of records in a database
- D. To save the most recent records retrieved from a database to enable database caching

Correct Answer: A

The correct answer is To avoid duplicate processing of records in a database. If a watermark column is provided, the values taken from that column are used to filter the contents of the next poll, so that only rows with a greater watermark value are returned. If an ID column is provided, this component automatically verifies that the same row is not picked twice by concurrent polls. Mule doc reference : <https://docs.mulesoft.com/db-connector/1.8/database-documentation#listener>

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