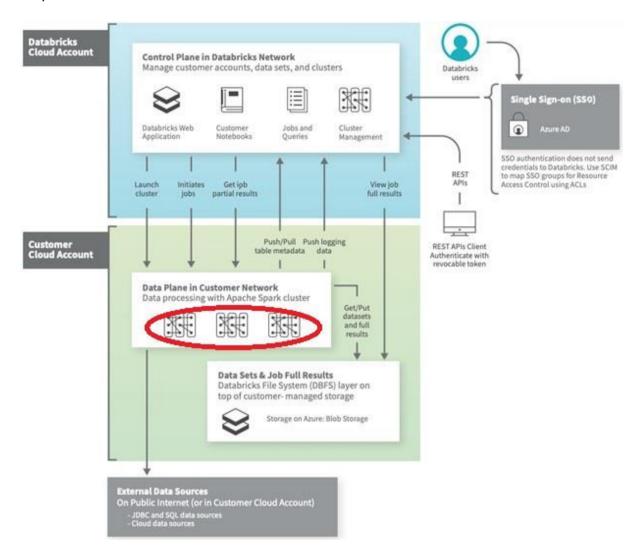
Question 1
How does Lakehouse replace dependency on using Data lakes and Data warehouses
in a Data and Analytics solution?
Open, direct access to data stored in standard data formats.
Supports ACID transactions.
Supports BI and Machine learning workloads
 Support for end-to-end streaming and batch workloads
All the above

You are currently working on storing data you receive from different customer
surveys this data is highly unstructured and changes over time, why Lakehouse is a
better choice compared to a Data warehouse?

0	Lakehouse supports schema enforcement and evolution, traditional data
wa	rehouses lack schema evolution.
0	Lakehouse supports SQL
0	Lakehouse supports ACID
0	Lakehouse enforces data integrity
0	Lakehouse supports primary and foreign keys like a data warehouse

Which of the following locations hosts the driver and worker nodes of a Databricks-managed cluster?

- O Data plane
- Control plane
- O Databricks Filesystem
- JDBC data source
- O Databricks web application



Question 4
You have written a notebook to generate a summary data set for reporting, Notebook was scheduled using the job cluster, but you realized it takes 8 minutes to start the cluster, what feature can be to start the cluster in a timely fashion?
Setup an additional job to run ahead of the actual job so the cluster is running second job starts
Use the Databricks cluster pools feature to reduce the startup time
Use Databricks Premium edition instead of Databricks standard edition
Pin the cluster in the cluster UI page so it is always available to the jobs
Disable auto termination so the cluster is always running

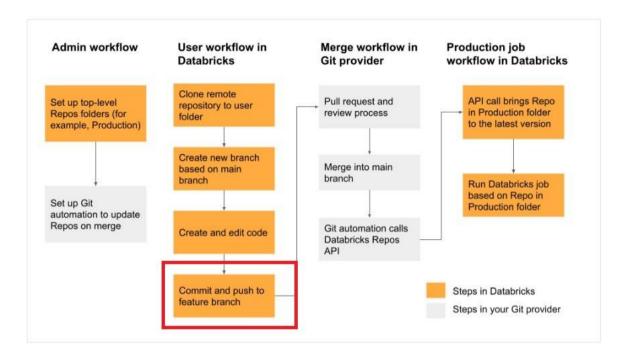
Cluster pools allow us to reserve VM's ahead of time, when a new job cluster is created VM are grabbed from the pool. Note: when the VM's are waiting to be used by the cluster only cost incurred is Azure. Databricks run time cost is only billed once VM is allocated to a cluster.

Here is a demo of how to setup and follow some best practices, https://www.youtube.com/watch?v=FVtITxOabxq&ab_channel=DatabricksAcademy

Question 5
Which of the following statement is true about Databricks repos?
ou can approve the pull request if you are the owner of Databricks repos
A workspace can only have one instance of git integration
Databricks Repos and Notebook versioning are the same features
ou cannot create a new branch in Databricks repos
Databricks repos allow you to comment and commit code changes and push ther o remote branch

See below diagram to understand the role Databricks Repos and Git provider plays when building a CI/CD workdlow.

All the steps highlighted in yellow can be done Databricks Repo, all the steps highlighted in Gray are done in a git provider like Github or Azure Devops



Question 6
Which of the statement is correct about the cluster pools?
0
Cluster pools allow you to perform load balancing
Cluster pools allow you to create a cluster
0
Cluster pools allow you to save time when starting a new cluster
0
Cluster pools are used to share resources among multiple teams
Cluster pools allow you to have all the nodes in the cluster from single physical server rack

Question /
Once a Custer is deleted below additional actions needs to performed by the administrator
Remove virtual machines but storage and networking are automatically dropped
Drop storage disks but Virtual machines and networking are automatically dropped
Remove networking but Virtual machines and storage disks are automatically dropped
0
Remove logs
No action needs to be performed. All resources are automatically removed.

Question 8
How does a Delta Lake differ from a traditional data lake?
Delta lake is Datawarehouse service on top of data lake that can provide reliability, security, and performance
0
Delta lake is a caching layer on top of data lake that can provide reliability, security, and performance
Delta lake is an open storage format like parquet with additional capabilities that can provide reliability, security, and performance
0
Delta lake is an open storage format designed to replace flat files with additional capabilities that can provide reliability, security, and performance
Delta lake is proprietary software designed by Databricks that can provide reliability, security, and performance

Explanation What is Delta?

Delta lake is

- · Open source
- $\dot{\cdot}$ Builds up on standard data format
- Optimized for cloud object storage
- · Built for scalable metadata handling

Delta lake is not

- · Proprietary technology
- · Storage format
- · Storage medium
- · Database service or data warehouse

Question 9 You were asked to create a delta table to store below transaction data?

transactionId	transactionDate	items
1	01-01-2021 09:10:24 AM	['iPhone 10', 'air pods']
2	01-01-2022 10:30:30 AM	['Pixel', 'Smart watch']

```
CREATE DELTA TABLE transactions (
transactionId int,
transactionDate timestamp,
items string)
\bigcirc
CREATE TABLE transactions (
transactionId int,
transactionDate timestamp,
items string)
FORMAT DELTA
CREATE TABLE transactions (
transactionId int,
transactionDate timestamp,
items string)
CREATE TABLE transactions (
transactionId int,
transactionDate timestamp,
items ARRAY<string>)
CREATE TABLE transactions (
transactionId int,
transactionDate timestamp,
items string<array>)
```

```
Question 10
Drop a DELTA table

C
DROP DELTA table_name

C
DROP TABLE table_name

C
DROP TABLE table_name FORMAT DELTA

C
DROP table_name
```

Delete records from the transactions Delta table where transactionDate is greater than current timestamp?

```
DELETE FROM transactions FORMAT DELTA where transactionDate > currenct_timestmap()

DELETE FROM transactions if transctionDate > current_timestamp()

DELETE FROM transactions where transactionDate > current_timestamp()

DELETE FROM transactions where transactionDate > current_timestamp()

C

DELETE FROM transactions where transactionDate > current_timestamp()

KEEP_HISTORY

C

DELETE FROM transactions where transactionDate GE current timestamp()
```

Question 12 Identify one of the below statements that can query a delta table in PySpark Dataframe API

```
Spark.read.mode("delta").table("table_name)

Spark.read.table.delta("table_name)

Spark.read.table("table_name")

Spark.read.table("table_name")

Spark.read.format("delta").LoadTableAs("table_name")

Spark.read.format("delta").TableAs("table_name")
```

The default threshold of VACUUM is 7 days, internal audit team asked to certain tables to maintain at least 365 days as part of compliance requirement, which of the below setting is needed to implement.

```
ALTER TABLE table_name set TBLPROPERTIES

(delta.deletedFileRetentionDuration= 'interval 365 days')

MODIFY TABLE table_name set TBLPROPERTY (delta.maxRetentionDays = 'interval 365 days')

ALTER TABLE table_name set EXENDED TBLPROPERTIES

(delta.deletedFileRetentionDuration= 'interval 365 days')

ALTER TABLE table_name set EXENDED TBLPROPERTIES (delta.vaccum.duration= 'interval 365 days')
```

```
Explanation
ALTER TABLE table_name SET TBLPROPERTIES ( property_key [ = ] property_val [, ...]
)
```

TBLPROPERTIES allow you to set key-value pairs

Table properties and table options (Databricks SQL) | Databricks on AWS

```
Question 14
Which of the following commands can be used to read a delta table in SQL

Spark.sql("select * from table_name")

%sql Select * from table_name

Both A & B

Execute.sql("select * from table")

Delta.sql("select * from table")
```

Question 15 Create a managed delta table called transactions to store below data

transactionId	transactionDate	items
1	01-01-2021 09:10:24 AM	['iPhone 10', 'air pods']
2	01-01-2022 10:30:30 AM	['Pixel', 'Smart watch']

```
CREATE MANAGED TABLE transactions (
transactionid int,
transctionDate timestamp,
items Array<string>)
\bigcirc
CREATE TABLE transactions (
transactionid int,
transctionDate timestamp,
items Array<string>)
CREATE MANAGED DELTA TABLE transactions (
transactionid int,
transctionDate timestamp,
items Array<string>)
CREATE TABLE transactions (
transactionid int,
transctionDate timestamp,
items Array<string>)
LOCATION '/mnt/managed/'
CREATE TABLE transactions (
transactionid int,
transctionDate timestamp,
items Array<string>)
LOCATION USING DELTA
```

Explanation The answer is

```
CREATE TABLE transactions (
transactionid int,
transctionDate timestamp,
items Array<string>)
```

By default, any table without a location keyword is a Delta Managed table.

Which of the following SQL statements can be used to update a transactions table, to set a flag on the table from Y to N $\,$

```
MODIFY transactions SET active_flag = 'N' WHERE active_flag = 'Y'

MERGE transactions SET active_flag = 'N' WHERE active_flag = 'Y'

UPDATE transactions SET active_flag = 'N' WHERE active_flag = 'Y'

REPLACE transactions SET active_flag = 'N' WHERE active_flag = 'Y'
```

The answer is

UPDATE transactions SET active_flag = 'N' WHERE active_flag = 'Y'

Delta Lake supports UPDATE statements on the delta table, all of the changes as part of the update are ACID compliant.

Customers can add many items to the cart and remove them before final checkout, below sample input data cointains every time a customer makes a change to the cart which is stored as an array in the Delta table, Marketing team asked you to create a unique list of item's that were ever added to the cart by each customer, fill in blanks by choosing the appropriate array function so the query produces below expected result as shown below.

Customer can add many items

Schema: cartId INT, items Array<INT>

Sample Data

Sample Input data:

cartId	items	
1	[1,100,200,300]	
1	[1,250,300]	

Expected Result

cartId	items	
1	[1,100,200,300,250]	

```
SELECT cartId, ___ (___(items)) as items
FROM carts GROUP BY cartId

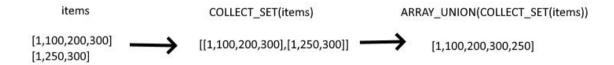
Expected result
cartId items
1 [1,100,200,300,250]

C
FLATTEN, COLLECT_UNION
C
ARRAY_UNION, FLATTEN
C
ARRAY_UNION, ARRAY_DISTINT
C
ARRAY_UNION, COLLECT_SET

C
ARRAY_DISTINCT, ARRAY_UNION
```

COLLECT SET is a kind of aggregate function that combines a column value from all rows into a unique list

ARRAY_UNION combines and removes any duplicates,



You were asked to identify number of times a temperature sensor exceed threshold temperature (100.00) by each device, each row contains 5 readings collected every 5 minutes, fill in the blank with the appropriate functions

Schema: deviceId INT, deviceTemp ARRAY<double>, dateTimeCollected TIMESTAMP

Sample data:

deviceId	deviceTemp	dateTimeCollected
1	[99.00,99.00,99.00,100.10,100.9]	10-10-2021 10:10:00
1	[99.00,99.00,100.00,100.15,102]	10-10-2021 10:15:00
1	[99.00,99.00,100.00,100.20,101]	10-10-2021 10:20:00

Output data:

deviceId	Count	
1	6	

```
SELECT deviceId, __ (__ (__ (deviceTemp], i -> i > 100.00)))
FROM devices
GROUP BY deviceId

C
SUM, COUNT, SIZE
C
SUM, SIZE, SLICE
C
SUM, SIZE, ARRAY_CONTAINS

C
SUM, SIZE, ARRAY_FILTER
C
SUM, SIZE, FILTER
```

FILER function can be used to filter an array based on an expression SIZE function can be used to get size of an array SUM is used to calculate to total by device

J	nput table	FILTER(d	eviceTem	o,i-> i > 100.0)	SIZE(FILT	ER(devic	eTemp,i->i	> 100.0))	
deviceId								SUM(SIZE(FILTER((deviceTemp,i->i > 100.0))
1	[99.00,99.00,99.00,100.10,100.9]		deviceId	deviceTemp [100.10,100.9]		deviceId	deviceTemp		deviceId deviceTemp
1	[99.00,99.00,100.00,100.15,102]	\longrightarrow	1	[100.15,102]	\longrightarrow	1	2		1 6
1	[99.00,99.00,100.00,100.20,101]		1	[100.20,101]		1	2		

You were asked to create a unique item's list that were added to the cart by user, fill in blanks by choosing the appropriate function

Schema: cartId INT, items Array<INT>

Sample data:

cartId	items
1	[[1,100,200,300], [1,250,300]]
2	[[10,150,200,300], [1,210,300],[350]]

Expected output

cartId	items
1	[1,100,200,300,250]
2	[10,150,200,300,210,350]

SELECT cartId, _(_(items)) FROM carts

O

ARRAY_UNION, ARRAY_DISCINT

0

ARRAY_DISTINCT, ARRAY_UNION

O

ARRAY_DISTINCT, FLATTEN

0

FLATTEN, ARRAY_DISTINCT

0

ARRAY_DISTINCT, ARRAY_FLATTEN

FLATTEN -> Transforms an array of arrays into a single array.

ARRAY_DISTINCT -> The function returns an array of the same type as the input argument where all duplicate values have been removed.

	Input	FLATTEN(items)			ARRAY_DISTINCT(FLATTEN(items))		
cartId	items		cartId	items		cartId	items
1	[[1,100,200,300], [1,250,300]]	\longrightarrow	1	[1,100,200,300,1,250,300]	\longrightarrow	1	[1,100,200,300,250]
2	[[10,150,200,300], [1,210,300],[350]]		2	[10,150,200,300,1,210,300,350]		2	[10,150,200,300,210,350]

You are working on IOT data where each device has 5 reading in an array collected in Celsius, you were asked to covert each individual reading from Celsius to Fahrenheit, fill in the blank with an appropriate function that can be used in this scenario.

Schema: deviceId INT, deviceTemp ARRAY<double>

Input Data

deviceId	deviceTempC
1	[25.00,26.00,25.00,26.00,27.00]

Expected result

deviceId	deviceTempF
1	[77.00,78.80,77.00,78.80.00,80.6]

SELECT deviceId, __(deviceTempC,i-> (i * 9/5) + 32) as deviceTempF
FROM sensors

APPLY

MULTIPLY

ARRAYEXPR

TRANSFORM

FORALL

Explanation TRANSFORM -> Transforms elements in an array in expr using the function func.

transform(expr, func)

Question 21
Which of the following array functions takes input column return unique list of values in an array?

COLLECT_LIST

COLLECT_SET

COLLECT_UNION

ARRAY_INTERSECT

ARRAY_UNION

COLLECT_SET: Collects unique values, including arrays

Input:

ld	value	
1	['A', 'B']	
1	['A', 'B']	
1	['B', 'C']	
1	['B', 'C']	

SELECT id, COLLECT_SET (value) FROM TABLE GROUP BY id

ld	value
1	[['A','B'], ['B','C']]

SELECT id, COLLECT_LIST (value) FROM TABLE GROUP BY id

ld	value
1	[['A','B'], ['A','B'], ['B','C'], ['B','C']]

You are looking to process the data based on two variables, one to check if the department is supply chain or check if process flag is set to True

```
if department = "supply chain" | process:

if department == "supply chain" or process = TRUE:

if department == "supply chain" | process == TRUE:

if department == "supply chain" | if process == TRUE:

if department == "supply chain" | if process == TRUE:

if department == "supply chain" or process:
```

What is the output of below function when executed with input parameters 1, 3:

```
def check_input(x,y):
    if x < y:
        x= x+1
        if x>y:
            x= x+1
        if x < y:
            x = x+1
        if x < y:
        x = x+1
        return x</pre>
```

Which of the following python statements can be used to replace the schema name and table name in the query?

```
table_name = "sales"
schema_name = "bronze"
query = f"select * from schema_name.table_name"

table_name = "sales"
query = "select * from {schema_name}.{table_name}"

table_name = "sales"
query = f"select * from {schema_name}.{table_name}"

table_name = "sales"
query = f"select * from + schema_name +"."+table_name"
```

Explanation The answer is

```
table_name = "sales"
query = f"select * from {schema_name}.{table_name}"
```

It is always best to use f strings to replace python variables, rather than using string concatenation.

you are currently working on creating a spark stream process to read and write in for a one-time micro batch, and also rewrite the existing target table, fill in the blanks to complete the below command sucesfully.

```
spark.table("source_table")
.writeStream
.option("____", "dbfs:/location/silver")
.outputMode("____")
.trigger(Once=___)
.table("target_table")

C
checkpointlocation, complete, True
C
checkpointlocation, True, overwrite
C
checkpointlocation, True, complete
C
checkpointlocation, True, complete
```

You were asked to write python code to stop all running streams, which of the following command can be used to get a list of all active streams currently running so we can stop them, fill in the blank.

```
for s in ____:
s.stop()

Spark.getActiveStreams()
spark.streams.active

activeStreams()
getActiveStreams()
spark.streams.getActive
```

At the end of the inventory process a file gets uploaded to the cloud object storage, you are asked to build a process to ingest data which of the following method can be used to ingest the data incrementally, schema of the file is expected to change overtime ingestion process should be able to handle these changes automatically. Below is the auto loader to command to load the data, fill in the blanks for successful execution of below code.

```
spark.readStream
.format("cloudfiles")
.option("_____","csv)
.option("____", 'dbfs:/location/checkpoint/')
.load(data_source)
.writeStream
.option("____", 'dbfs:/location/checkpoint/')
.option("____", "true")
.table(table_name))
C
format, checkpointlocation, schemalocation, overwrite
C
cloudfiles.format, checkpointlocation, cloudfiles.schemalocation, overwrite
C
cloudfiles.format, cloudfiles.schemalocation, checkpointlocation, mergeSchema
C
cloudfiles.format, cloudfiles.schemalocation, checkpointlocation, append
C
cloudfiles.format, cloudfiles.schemalocation, checkpointlocation, overwrite
```

Question 28
Which of the following scenarios are the best fit for AUTO LOADER?
Efficiently process new data incrementally from cloud object storage
0
Efficiently move data incrementally from one delta table to another delta table
Incrementally process new streaming from data into delta lake
0
Incrementally process new data from relational databases like MySQL
Efficiently copy data from data lake location to another data lake location

You are asked to setup an AUTO LOADER to process the incoming data, this data arrives in JSON format and get dropped into cloud object storage and you are required to process the data as soon as it arrives in cloud storage, which of the following statements is correct

0

AUTO LOADER is native to DELTA lake it cannot support external cloud object storage

 \bigcirc

AUTO LOADER has to be triggered from an external process when the file arrives in the cloud storage

0

AUTO LOADER needs to be converted to a Structured stream process

AUTO LOADER can only process continuous data when stored in DELTA lake

AUTO LOADER can support file notification method so it can process data as it arrives

Directory listing: Auto Loader identifies new files by listing the input directory. File notification: Auto Loader can automatically set up a notification service and queue service that subscribe to file events from the input directory.

Choosing between file notification and directory listing modes | Databricks on AWS

Question 30
What is the main difference between bronze and silver?
Duplicates are removed in bronze, schema is applied in silver
Silver may contain aggregated data
© Bronze is raw copy of ingested data, silver contains data with schema and optimized format.
O Bad data is filtered in Bronze, silver is a copy of bronze data

Question 31
What is the main difference between silver and gold? $\hfill \bigcirc$
Silver may contain aggregated data
Gold may contain aggregated data
0
Data quality checks are applied in gold
0
Silver is a copy of bronze data
God is a copy of silver data

Medallion Architecture - Databricks

Silver Layer:

- 1. Reduces data storage complexity, latency, and redundency
- 2. Optimizes ETL throughput and analytic query performance
- 3. Preserves grain of original data (without aggregation)
- 4. Eliminates duplicate records
- 5. production schema enforced
- 6. Data quality checks, quarantine corrupt data

Question 32
What is the main difference between silver and gold?
Silver optimized to perform ETL, Gold is optimized query performance
0
Gold is optimized go perform ETL, Silver is optimized for query performance
0
Silver is copy of Bronze, Gold is a copy of Silver
0
Silver is stored in Delta Lake, Gold is stored in memory
0
Silver may contain aggregated data, gold may preserve the granularity of original
data
uata

Explanation Medallion Architecture - Databricks Gold Layer:

- 1. Powers MI applications, reporting, dashboards, ad hoc analytics
- 2. Refined views of data, typically with aggregations
- 3. Reduces strain on production systems
- 4. Optimizes query performance for business-critical data

A dataset has been defined using Delta Live Tables and includes an expectations clause: CONSTRAINT valid_timestamp EXPECT (timestamp > '2020-01-01') What is the expected behavior when a batch of data containing data that violates these constraints is processed?

O

Records that violate the expectation are added to the target dataset and recorded as invalid in the event log.

0

Records that violate the expectation are dropped from the target dataset and recorded as invalid in the event log.

0

Records that violate the expectation cause the job to fail.

U

Records that violate the expectation are added to the target dataset and flagged as invalid in a field added to the target dataset.

0

Records that violate the expectation are dropped from the target dataset and loaded into a quarantine table.

0

A dataset has been defined using Delta Live Tables and includes an expectations clause: CONSTRAINT valid_timestamp EXPECT (timestamp > '2020-01-01') ON VIOLATION DROP ROW

What is the expected behavior when a batch of data containing data that violates these constraints is processed?

Records that violate the expectation are added to the target dataset and recorded as invalid in the event log.

Records that violate the expectation are dropped from the target dataset and recorded as invalid in the event log.

Records that violate the expectation cause the job to fail.

Records that violate the expectation are added to the target dataset and flagged as invalid in a field added to the target dataset.

Records that violate the expectation are dropped from the target dataset and loaded into a quarantine table.

Question 35
You are asked to debug a job that is taking too long run-on Sunday's, what are steps you are going to take to see the step that is taking longer to run?
O
A notebook activity of job run is only visible when using all-purpose cluster.
Under Workflow UI and jobs select job you want to monitor and select the run, notebook activity can be viewed.
\circ
Enable debug mode in the Jobs to see the output activity of a job, output should be available to view.
Once a job is launched, you cannot access the job's notebook activity.
Use the compute's spark UI to monitor the job activity.

Question 36
Your colleague was walking you through how a job was setup, but you noticed a warning message that said, "Jobs running on all-purpose cluster are considered all purpose compute", the colleague was not sure why he was getting the warning message, how do you best explain this warning message?
All-purpose clusters cannot be used for Job clusters, due to performance issues.
All-purpose clusters take longer to start the cluster vs a job cluster
All-purpose clusters are less expensive than the job clusters
All-purpose clusters are more expensive than the job clusters

All-purpose cluster provide interactive messages that can not be viewed in a job

Question 37
Your team has hundreds of jobs running but it is difficult to track cost of each job
run, you are asked to provide a recommendation on how to monitor and track cost
across various workloads
Create jobs in different workspaces, so we can track the cost easily
Use Tags, during job creation so cost can be easily tracked
Use job logs to monitor and track the costs
Use workspace admin reporting
O
Use a single cluster for all the jobs, so cost can be easily tracked

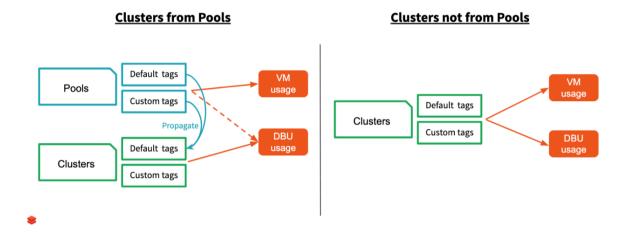
The answer is Use Tags, during job creation so cost can be easily tracked

Review below link for more details https://docs.databricks.com/administration-quide/account-settings/usage-detail-tags-aws.html

Here is a view how tags get propagated from pools to clusters and clusters without pools,

Databricks Object Tagging Hierarchy





The sales team has asked the Data engineering team to develop a dashboard that shows sales performance for all stores, but the sales team would like to use the dashboard but would like to select individual store location, which of the following approaches Data Engineering team can use to build this functionality into the dashboard.

0

Use guery Parameters which then allow user to choose any location

0

Currently dashboards do not support parameters

0

Use Databricks REST API to create a dashboard for each location

0

Use SQL UDF function to filter the data based on the location

0

Use Dynamic views to filter the data based on the location

Explanation The answer is

Databricks many types of parameters in the dashboard, a drop-down list can be created based on a query that has a unique list of store locations.

Here is a simple query that takes a parameter for

```
SELECT * FROM sales WHERE field IN ( {{ Multi Select Parameter }} )
Or
SELECT * FROM sales WHERE field = {{ Single Select Parameter }}
```

Query parameter types

Text
Number
Dropdown List
Query Based Dropdown List
Date and Time

Question 39
You are working on dashboard that takes really lot of time to load in the browser, due
to each visualization contains lot of data to populate, which of the following
approaches can be taken to address this issue?
Increase size of the SQL endpoint cluster
Increase the scale of maximum range of SQL endpoint cluster
0
Use Databricks SQL Query filter to limit the amount of data in each visualization
Remove data from Delta Lake
Use Delta cache to store the intermediate results

A query filter lets you interactively reduce the amount of data shown in a visualization, similar to <u>query parameter</u> but with a few key differences. A query filter limits data *after* it has been loaded into your browser. This makes filters ideal for smaller datasets and environments where query executions are time-consuming, rate-limited, or costly.

This query filter is different from than filter that needs to be applied at the data level, this filter is at the visualization level so you can toggle how much data you want to see.

```
SELECT action AS `action::filter`, COUNT(0) AS "actions count"
FROM events
GROUP BY action
```

When queries <u>have filters</u> you can also apply filters at the dashboard level. Select the Use Dashboard Level Filters checkbox to apply the filter to all queries.

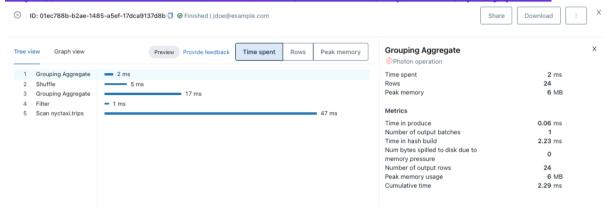
Dashboard filters

Query filters | Databricks on AWS

Question 40
One of the queries in the Dashboard takes a long time to refresh, which of the below
steps can be taken to identify the root cause of this issue?
Restart the SQL endpoint
Select the SQL endpoint cluster, spark UI, SQL tab to see the execution plan and time spent in each step
\circ
Run optimize and Z ordering
Change the Spot Instance Policy from "Cost optimized" to "Reliability Optimized."
Use Query History, to view queries and select query, and check query profile to time spent in each step

The answer is, Use Query History, to view queries and select query, and check the query profile to see time spent in each step.

Here is the view of the query profile, for more info use the link https://docs.microsoft.com/en-us/azure/databricks/sgl/admin/query-profile



A SQL Dashboard was built for the supply chain team to monitor the inventory and product orders, but all of the timestamps displayed on the dashboards are showing in UTC format, so they requested to change the time zone to the location of New York. How would you approach resolving this issue?

0

Move the workspace from Central US zone to East US Zone

Ö

Change the timestamp on the delta tables to America/New_York format

O

Change the spark configuration of SQL endpoint to format the timestamp to America/New_York

Ö

Under SQL Admin Console, set the SQL configuration parameter time zone to America/New_York

0

Add SET Timezone = America/New_York on every of the SQL queries in the dashboard.

The answer is, Under SQL Admin Console, set the SQL configuration parameter time zone to America/New_York

Here are steps you can take this to configure, so the entire dashboard is changed without changing individual queries

Configure SQL parameters

To configure all warehouses with SQL parameters:

Click Settings at the bottom of the sidebar and select SQL Admin Console. Click the SQL Warehouse Settings tab.

In the SQL Configuration Parameters textbox, specify one key-value pair per line. Separate the name of the parameter from its value using a space. For example, to enable ANSI MODE:

enable ANSI_MODE:							
SQL Configuration Parameters							
SQL Configuration Parameters let you override th SET command.	e defau	ult behavior for all sessions with all endpoints. Session parameters can be overridden for a single session with the					
Warning: When you save a change to the SQL configuration parameters, clusters allocated to running SQL endpoints are restarted.							
SQL Configuration Parameters	1	ANSI_MODE true					
	Sau						

Similarly, we can add a line in the SQL Configuration parameters timezone America/New_York

SQL configuration parameters | Databricks on AWS

Question 42
Which of the following technique can be used to fine-grained access control to rows and columns based on access?
Use Unity catalog to grant access to rows and columns
Row and column access control lists
Use dynamic view functions
0
Data access control lists
Dynamic Access control lists with Unity Catalog

The answer is, Use dynamic view functions.

Here is an example that limits access to rows based on the user being part managers group, in the below view if a user is not a part of the manager's group you can only see rows where the total amount is <= 1000000

Dynamic view function to filter rows

Please review below for more details

FROM sales raw

https://docs.microsoft.com/en-us/azure/databricks/security/access-control/table-acls/object-privileges#dynamic-view-functions

Question 43
Unity catalog helps you manage the below resources in Databricks at account level
0
Tables
0
ML Models
0
Dashboards
0
Catalogs
0
All of the above

A newly joined team member John Smith in the Marketing team who currently has access read access to sales tables but does not have access to delete rows from the table, which of the following commands help you accomplish this?

```
GRANT USAGE ON TABLE table_name TO john.smith@marketing.com

GRANT DELETE ON TABLE table_name TO john.smith@marketing.com

GRANT DELETE TO TABLE table_name ON john.smith@marketing.com

GRANT MODIFY TO TABLE table_name ON john.smith@marketing.com

GRANT MODIFY ON TABLE table_name TO john.smith@marketing.com
```

The answer is GRANT MODIFY ON TABLE table name TO john.smith@marketing.com

- · SELECT: gives reada access to an object.
- · CREATE: gives ability to create an object (for example, a table in a schema).
- · MODIFY: gives ability to add, delete, and modify data to or from an object.
- \cdot USAGE: does not give any abilities, but is an additional requirement to perform any action on a schema object.
- · READ_METADATA: gives ability to view an object and its metadata.
- · CREATE_NAMED_FUNCTION: gives ability to create a named UDF in an existing catalog or schema.
- · MODIFY_CLASSPATH: gives ability to add files to the Spark class path.
- · ALL PRIVILEGES: gives all privileges (is translated into all the above privileges

Question 45
Kevin is the owner of both the sales table and regional_sales_vw view which uses the sales table as underlying source for the data, and Kevin is looking to grant select privilege on the view regional_sales_vw to one of newly joined team members
Steven. Which of the following is a true statement?
Kevin can not grant access to Steven since he does not have security admin privilege
Kevin although is the owner but does not have ALL PRIVILEGES permission
0
Kevin can grant access to the view, because he is the owner of the view and the underlying table
0
Kevin can not grant access to Steven since he does have workspace admin privilege
Steve will also require SELECT access on the underlying table

The answer is, Kevin can grant access to the view, because he is the owner of the view and the underlying table,

Ownership determines whether or not you can grant privileges on derived objects to other users, a user who creates a schema, table, view, or function becomes its owner. The owner is granted all privileges and can grant privileges to other users