

# Snowflake ARA-C01

SNOWFLAKE SNOWPRO ADVANCED - ARCHITECT CERTIFICATION  
QUESTIONS & ANSWERS

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Exam Summary – Syllabus – Questions

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**ARA-C01**

**Snowflake Certified SnowPro Advanced - Architect**

**65 Questions Exam – Duration of 115 minutes**

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## Know Your ARA-C01 Certification Well:

The ARA-C01 is best suitable for candidates who want to gain knowledge in the Snowflake Advance. Before you start your ARA-C01 preparation you may struggle to get all the crucial SnowPro Advanced - Architect materials like ARA-C01 syllabus, sample questions, study guide.

But don't worry the ARA-C01 PDF is here to help you prepare in a stress free manner.

The PDF is a combination of all your queries like-

- What is in the ARA-C01 syllabus?
- How many questions are there in the ARA-C01 exam?
- Which Practice test would help me to pass the ARA-C01 exam at the first attempt?

Passing the ARA-C01 exam makes you Snowflake Certified SnowPro Advanced - Architect. Having the SnowPro Advanced - Architect certification opens multiple opportunities for you. You can grab a new job, get a higher salary or simply get recognition within your current organization.

## Snowflake ARA-C01 SnowPro Advanced - Architect Certification Details:

<b>Exam Name</b>	Snowflake SnowPro Advanced - Architect
<b>Exam Code</b>	ARA-C01
<b>Exam Price</b>	\$375 USD
<b>Duration</b>	115 minutes
<b>Number of Questions</b>	65
<b>Passing Score</b>	750 + Scaled Scoring from 0 - 1000
<b>Recommended Training / Books</b>	<a href="#">Snowflake Advanced Training</a> <a href="#">SnowPro Advanced: Architect Study Guide</a>
<b>Schedule Exam</b>	<a href="#">PEARSON VUE</a>
<b>Sample Questions</b>	<a href="#">Snowflake ARA-C01 Sample Questions</a>
<b>Recommended Practice</b>	<a href="#">Snowflake Certified SnowPro Advanced - Architect Practice Test</a>

## ARA-C01 Syllabus:

Section	Objectives
<b>Account and Security - 25-30%</b>	
<b>Design a Snowflake account and database strategy, based on business requirements.</b>	<ul style="list-style-type: none"> <li>- Create and configure Snowflake parameters based on a central account and any additional accounts.               <ul style="list-style-type: none"> <li>• Parameters (all levels)                   <ul style="list-style-type: none"> <li>- Account parameters</li> <li>- Object parameters</li> </ul> </li> <li>• Outline the Snowflake parameter hierarchy and the relationship between the parameter types.</li> </ul> </li> <li>- List the benefits and limitations of one Snowflake account as compared to multiple Snowflake accounts.               <ul style="list-style-type: none"> <li>• Isolate or segment accounts</li> <li>• Key considerations and constraints when defining an account strategy</li> <li>• Features/capabilities that can be leveraged across accounts</li> <li>• Identify use cases that are appropriate for account strategies</li> </ul> </li> </ul>
<b>Design an architecture that meets data security, privacy, compliance, and governance requirements.</b>	<ul style="list-style-type: none"> <li>- Configure Role Based Access Control (RBAC) hierarchy               <ul style="list-style-type: none"> <li>• Privilege inheritance</li> <li>• Database roles</li> <li>• System roles and associated best practices</li> <li>• Functional roles compared to access roles</li> </ul> </li> <li>- Data Access               <ul style="list-style-type: none"> <li>• Storage integrations</li> </ul> </li> <li>- Data Security               <ul style="list-style-type: none"> <li>• Secure views</li> <li>• Column-level security                   <ul style="list-style-type: none"> <li>- Dynamic Data Masking</li> <li>- Row level security</li> <li>- Row access policies</li> </ul> </li> <li>• Compliance</li> <li>• Payment Card Industry (PCI) Security Standard</li> <li>• Personal Identifiable Information (PII)/ Personal Health</li> </ul> </li> </ul>

Section	Objectives
	Information (PHI) <ul style="list-style-type: none"> <li>• Features of the different Snowflake editions</li> </ul>
<b>Outline Snowflake security principles and identify use cases where they should be applied.</b>	<ul style="list-style-type: none"> <li>- Encryption</li> <li>- Network security               <ul style="list-style-type: none"> <li>• Access control lists</li> <li>• AWS PrivateLink/Azure Private Link</li> </ul> </li> <li>- User, role, grants provisioning</li> <li>- Authentication               <ul style="list-style-type: none"> <li>• Federated authentication</li> <li>• Single Sign-on (SSO)</li> <li>• Multi-Factor Authentication (MFA)</li> <li>• Key-pair authentication</li> <li>• Security integrations</li> </ul> </li> </ul>
<b>Snowflake Architecture - 25-30%</b>	
<b>Outline the benefits and limitations of various data models in a Snowflake environment.</b>	<ul style="list-style-type: none"> <li>- Data models</li> <li>- Use of key/column constraints (ENABLE/RELY/VALIDATE)</li> </ul>
<b>Design data sharing solutions, based on different use cases.</b>	<ul style="list-style-type: none"> <li>- Use cases               <ul style="list-style-type: none"> <li>• Sharing within the same organization/same Snowflake account</li> <li>• Sharing within a cloud region</li> <li>• Sharing across cloud regions</li> <li>• Sharing between different Snowflake accounts</li> <li>• Sharing to a non-Snowflake customer</li> <li>• Sharing across platforms</li> </ul> </li> <li>- Snowflake Marketplace</li> <li>- Data Exchange</li> <li>- Data sharing methods               <ul style="list-style-type: none"> <li>• Configure shares, account parameters, and privileges</li> <li>• Security patterns for data sharing</li> <li>• Outline the purpose, benefits, and capabilities of the multiple data sharing methods</li> </ul> </li> </ul>

Section	Objectives
<b>Create architecture solutions that support development lifecycles as well as workload requirements.</b>	<ul style="list-style-type: none"> <li>- Data lake and environments               <ul style="list-style-type: none"> <li>• Storage directory structure</li> <li>• Zones (data warehouse layers)</li> <li>• Support of DevOps/DataOps principles</li> <li>• Production/development/sandbox</li> <li>• Data workloads</li> <li>• Data warehouse</li> <li>• ELT/ETL</li> </ul> </li> <li>- Development lifecycle support               <ul style="list-style-type: none"> <li>• Migration                   <ul style="list-style-type: none"> <li>- CI/CD</li> </ul> </li> <li>• Deployment</li> <li>• Rollback process</li> </ul> </li> </ul>
<b>Given a scenario, outline how objects exist within the Snowflake object hierarchy and how the hierarchy impacts an architecture.</b>	<ul style="list-style-type: none"> <li>- Roles</li> <li>- Virtual warehouses</li> <li>- Object hierarchy               <ul style="list-style-type: none"> <li>• Databases                   <ul style="list-style-type: none"> <li>- CI/CD</li> </ul> </li> </ul> </li> <li>- Tables</li> <li>- Views</li> <li>- Stages</li> <li>- File formats</li> <li>- Functions</li> <li>- Procedures</li> <li>- Streams and tasks</li> </ul>
<b>Determine the appropriate data recovery solution in Snowflake and how data can be restored.</b>	<ul style="list-style-type: none"> <li>- Backup/recovery               <ul style="list-style-type: none"> <li>• Time Travel                   <ul style="list-style-type: none"> <li>- Table types</li> <li>- Costs</li> <li>- Availability</li> <li>- Query performance impacts</li> </ul> </li> <li>• Data corruption impacts</li> <li>• Fail-safe</li> </ul> </li> <li>- Disaster recovery               <ul style="list-style-type: none"> <li>• Replication and failover</li> <li>• Zero-copy cloning</li> </ul> </li> </ul>

Section	Objectives
<b>Data Engineering - 20-25%</b>	
<b>Determine the appropriate data loading or data unloading solution to meet business needs.</b>	<ul style="list-style-type: none"> <li>- Data sources               <ul style="list-style-type: none"> <li>• Data at rest</li> <li>• Data in motion</li> <li>• External sources and formats</li> <li>• Streaming data                   <ul style="list-style-type: none"> <li>- Snowpipe</li> <li>- Change Data Capture (CDC)</li> </ul> </li> <li>• OLTP/RDBMS sources</li> <li>• API sources</li> </ul> </li> <li>- Data ingestion               <ul style="list-style-type: none"> <li>• Bulk file upload</li> <li>• Snowpipe</li> <li>• External tables</li> <li>• Reload process</li> <li>• Incremental updates compared to full updates</li> <li>• Iceberg tables</li> <li>• Parameters for copying data and addressing data handling error</li> </ul> </li> <li>- Architecture changes               <ul style="list-style-type: none"> <li>• Schema detection and table schema evolution</li> <li>• Data source changes</li> </ul> </li> <li>- Data unloading</li> </ul>
<b>Outline key tools in Snowflake's ecosystem and how they interact with Snowflake.</b>	<ul style="list-style-type: none"> <li>- Connectors               <ul style="list-style-type: none"> <li>• Kafka</li> <li>• Spark</li> <li>• Python</li> </ul> </li> <li>- Drivers               <ul style="list-style-type: none"> <li>• JDBC</li> <li>• ODBC</li> </ul> </li> <li>- API endpoints               <ul style="list-style-type: none"> <li>• Use of system\$allowlist</li> </ul> </li> </ul>

Section	Objectives
	<ul style="list-style-type: none"> <li>- SnowSQL</li> <li>- Snowpark               <ul style="list-style-type: none"> <li>• Python</li> <li>• Scala</li> <li>• Java</li> </ul> </li> </ul>
<b>Determine the appropriate data transformation solution to meet business needs.</b>	<ul style="list-style-type: none"> <li>- Views and tables               <ul style="list-style-type: none"> <li>• Benefits, limitations, properties</li> <li>• Relationship and impact between the view and data types</li> <li>• Impact of costs</li> <li>• Dynamic tables</li> </ul> </li> <li>- Staging layers and tables</li> <li>- Querying semi-structured data               <ul style="list-style-type: none"> <li>• Flattened</li> </ul> </li> <li>- Data processing</li> <li>- Stored procedures</li> <li>- Streams and tasks</li> <li>- Functions               <ul style="list-style-type: none"> <li>• External functions                   <ul style="list-style-type: none"> <li>- Performance impacts</li> </ul> </li> <li>• User-Defined Functions (UDFs)</li> <li>• User-Defined Table Functions (UDTFs)</li> <li>• Secure functions</li> </ul> </li> </ul>
<b>Performance Optimization - 20-25%</b>	
<b>Outline performance tools, best practices, and appropriate scenarios where they should be applied.</b>	<ul style="list-style-type: none"> <li>- Query profiling               <ul style="list-style-type: none"> <li>• Interpret a Query Profile, identify bottlenecks, and outline recommendations</li> <li>• Metadata functions</li> </ul> </li> <li>- Virtual warehouse configurations               <ul style="list-style-type: none"> <li>• Auto-suspend/resume</li> <li>• Scale up/down (resizing)</li> <li>• Scale in/out (multi-cluster warehouse/auto-scaling)</li> <li>• Query acceleration service</li> <li>• Warehouse queuing</li> </ul> </li> </ul>



Section	Objectives
	<ul style="list-style-type: none"> <li>• Snowpark-optimized warehouses</li> <li>- Clustering               <ul style="list-style-type: none"> <li>• Natural clustering</li> <li>• Auto-clustering</li> <li>• Clustering keys</li> </ul> </li> <li>- Search optimization service</li> <li>- Caching               <ul style="list-style-type: none"> <li>• Different cache layers</li> <li>• Cache expiration</li> <li>• Impact of costs</li> </ul> </li> </ul>
<b>Troubleshoot performance issues with existing architectures.</b>	<ul style="list-style-type: none"> <li>- Use of system clustering information</li> <li>- Warehouse configurations</li> <li>- Optimization techniques</li> <li>- Micro-partition pruning</li> <li>- Monitoring and alerting</li> <li>• Use of the Account Usage and Information schemas</li> <li>• Resource monitoring</li> <li>• Email notifications</li> </ul>

## Snowflake ARA-C01 Sample Questions:

### Question: 1

What is the data size limit for loading into a variant column?

- a) 16 MB(Compressed)
- b) 1 GB(Compressed)
- c) 32 GB
- d) 10 MB - 100 MB compressed

**Answer: a**

### Question: 2

When a database gets cloned, what accesses are replicated?

- a) All objects in the database and their child objects(schemas, tables etc)
- b) Only the data base object access
- c) Only the child object access
- d) No access gets replicated

**Answer: a**

**Question: 3**

When would you usually consider to add clustering key to a table?

- a) The performance of the query has deteriorated over a period of time.
- b) The number of users querying the table has increased
- c) it is a multi-terabyte size table
- d) The table has more than 20 columns

**Answer: a, c**

**Question: 4**

One of your colleagues has submitted a long running query in Snowflake. how long the query can run till snowflake automatically cancels the query?

- a) 14 hours
- b) 2 days
- c) 2 hours
- d) 24 hours

**Answer: b**

**Question: 5**

Which command will you run to list all privileges and roles granted to the role?

- a) SHOW GRANTS FOR ROLE <ROLE NAME>
- b) SHOW GRANTS OF ROLE <ROLE NAME>
- c) SHOW GRANTS ON ROLE <ROLE NAME>
- d) SHOW GRANTS TO ROLE <ROLE NAME>

**Answer: d**

**Question: 6**

Who can view account-level Credit and Storage Usage?

- a) ACCOUNTADMIN
- b) A role which has been granted the MONITOR USAGE global privilege
- c) STORAGEADMIN
- d) STORAGEADMIN

**Answer: a, b**

**Question: 7**

A stream stores data with the same columns as the source data but with additional columns. What are those additional columns?

- a) METADATA\$ACTION
- b) METADATA\$ISUPDATE
- c) METADATA\$ROW\_ID
- d) METADATA\$DELETE

**Answer: a, b, c**

**Question: 8**

When loading data from stage using COPY INTO, what options can you specify for the ON\_ERROR clause?

- a) CONTINUE
- b) SKIP\_FILE
- c) ABORT\_STATEMENT
- d) FAIL

**Answer: a, b, c**

**Question: 9**

Which of the below approach results in performance improvement through linear scaling of data ingestion workload?

- a) Split large files into recommended range of 10 MB to 100 MB
- b) Organize data by granular path
- c) All of the above
- d) Resize virtual warehouse

**Answer: c**

**Question: 10**

For which use cases, will you use cross-cloud and cross-region replication?

- a) Business continuity and disaster recovery
- b) Secure data sharing across regions/cloud
- c) Data portability and account migrations
- d) All of these

**Answer: d**

# Study Guide to Crack Snowflake SnowPro Advanced - Architect ARA-C01 Exam:

- Getting details of the ARA-C01 syllabus, is the first step of a study plan. This pdf is going to be of ultimate help. Completion of the syllabus is must to pass the ARA-C01 exam.
- Making a schedule is vital. A structured method of preparation leads to success. A candidate must plan his schedule and follow it rigorously to attain success.
- Joining the Snowflake provided training for ARA-C01 exam could be of much help. If there is specific training for the exam, you can discover it from the link above.
- Read from the ARA-C01 sample questions to gain your idea about the actual exam questions. In this PDF useful sample questions are provided to make your exam preparation easy.
- Practicing on ARA-C01 practice tests is must. Continuous practice will make you an expert in all syllabus areas.

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