

# **SnowPro Snowpark Specialist**

## **Exam Practice Tests**

**by**  
**Cristian Scutaru**

**Copyright © 2024 XtractPro Software**  
**All Rights Reserved**

# Table of Contents

*About this Book*

*Practice Test 1*

*Practice Test 1 - Answers and Explanations*

*Practice Test 2*

*Practice Test 2 - Answers and Explanations*

*Conclusions*

*About the Author*

# About this Book

## *Who this book is for*

- People trying to pass the new [SnowPro Snowpark Specialist certification exam](#) issued recently by Snowflake.
- Snowflake experts trying to improve their programming skills by learning Snowpark.
- Python developers willing to acquire a certification in Snowflake AI Data Cloud programming.

This is not an introduction to Snowflake, as you should already have some rather advanced knowledge on this platform. Passing the [SnowPro Core certification exam](#) is also a requirement for this advanced specialty exam.

The live interactive version of this book has been implemented on Udemy with the **SnowPro Snowpark Specialist - Exam Practice Tests** title. The video version of these practice exams is in a separate course on Udemy with the **SnowPro Specialty: Snowpark Certification Exam** title:



My name is Cristian Scutaru and I'm a world-class expert in Snowflake, SnowPro SME (Subject Matter Expert) and former Snowflake Data Superhero. For several years, I helped Snowflake create many of the exam questions out there. Many of the Advanced exam questions and answers from the SnowPro exams have been indeed created by me.

I passed over the years 5 out of the 6 SnowPro exams myself, all from the first attempt. In the last 3-4 years alone, I passed over 40 paid proctored certification exams overall. And I still never failed one, I have been lucky so far.

***This book contains two high-quality practice tests of 50 questions each, to help you become certified as a SnowPro Snowpark Specialist, passing the new online proctored certification exam.***

- All questions are closely emulated from those currently found in the actual exam, so you'll not waste time on anything else.
- All questions are curated and very similar to the actual exam questions, which are long and scenario-based for the most part.
- Most exam questions include long portions of code, as this certification is targeted in particular for Python developers.
- Unlike the real exam, you'll know right away what questions you missed, and what the correct answers are.
- Detailed explanations with external references for any possible choice, in each practice test question.
- Quiz question types are mostly multi-choice and multi-select.

### ***Specifics of the real exam***

- Announced on Oct 21, 2024
- **Between 65 and 80 questions (80 for the beta exam)**
- **Less than 2 hours time limit (115 minutes for the beta exam)**
- **Passing score of around 75% (must be estimated later on)**
- \$112 US fee per attempt for the beta exam (until Dec 20, 2024)
- or \$225 US fee per attempt when going live (since Jan 2025)

### ***What the exam will test you for***

- Specialized knowledge, skills, and best practices used to build Snowpark DataFrame data solutions in Snowflake including key concepts, features, and programming constructs.
- Perform data transformations using Snowpark DataFrame functions.
- Query data sources as Snowpark DataFrame objects.
- Connect to Snowflake using a Snowpark Session object.
- Process results client-side or persist results in Snowflake through Snowpark DataFrame actions.
- Design a sequence of operations or conditional logic with Snowpark stored procedures.

### ***What the typical candidate may have***

- 1+ years of Snowpark experience with Snowflake, in an enterprise environment.
- Knowledge of the Snowpark API for Python and Snowpark's client-side and server-side capabilities, as well as experience with data migration.
- Advanced proficiency writing code in Python and/or PySpark.

### ***Exam domain breakdown (download and check the Study Guide)***

- **Snowpark Concepts - 15%**
- **Snowpark API for Python - 30%**
- **Snowpark for Data Transformations - 35%**
- **Snowpark Performance Optimization - 20%**

### ***How you should use these tests***

- Try the first practice test. And do not worry about the time limit or if you fail. You are expected to fail, this is how you learn...
- Stop the exam anytime, if you're not patient enough to go over all the questions.
- The passing score is estimated at this time to be around 75%. Once you are done, go to the ***Answers and Explanations*** section for your test, and check both the right and wrong choices for each individual question (remember these!).
- Read the detailed **Explanation** for each question.
- Repeat with the second practice test. Don't skip it, as both these tests together cover most types of actual exam questions.
- Repeat these tests again and again, until you score consistently at least 90% on each. And then go for the real deal. *Good luck!*

# Practice Test 1

## Question 1:

An active WH1 Snowflake warehouse has been created with the default parameter values. Which of the following statements will fail? (choose one)

- A) `ALTER WAREHOUSE wh1 SET WAREHOUSE_SIZE = xsmall;`
- B) `ALTER WAREHOUSE wh1 SET WAREHOUSE_TYPE = 'snowpark-optimized';`
- C) `ALTER WAREHOUSE wh1 SET SCALING_POLICY = economy;`
- D) `ALTER WAREHOUSE wh1 SET AUTO_SUSPEND = 0;`

## Question 2:

Which of the following statements will create a Medium Snowpark-optimized warehouse? (choose one)

- A) `CREATE MEDIUM SNOWPARK OPTIMIZED WAREHOUSE wh1;`
- B) `CREATE WAREHOUSE wh1 MEDIUM SNOWPARK OPTIMIZED;`
- C) `CREATE WAREHOUSE wh1 TYPE = 'SNOWPARK OPTIMIZED' SIZE = MEDIUM;`
- D) `CREATE WAREHOUSE wh1 WAREHOUSE_TYPE = 'SNOWPARK-OPTIMIZED';`

## Question 3:

What should you do to change an active Snowpark-optimized warehouse to an X-Small standard warehouse? (choose three)

- A) Change its size to 'X-SMALL'.
- B) Resume the warehouse.
- C) Suspend the warehouse.
- D) Change its size to Snowpark-optimized.
- E) Change its type to Snowpark-optimized.

## Question 4:

**A virtual warehouse was just created with `CREATE WAREHOUSE wh1`. Which of the following will successfully change its type? (choose one)**

A)

```
ALTER WAREHOUSE wh1 SET AUTO_SUSPEND = 0;  
ALTER WAREHOUSE wh1 SET WAREHOUSE_SIZE = 'MEDIUM';  
ALTER WAREHOUSE wh1 SET WAREHOUSE_TYPE = 'SNOWPARK-OPTIMIZED';
```

B)

```
ALTER WAREHOUSE wh1 SUSPEND;  
ALTER WAREHOUSE wh1 SET WAREHOUSE_SIZE = 'MEDIUM';  
ALTER WAREHOUSE wh1 SET WAREHOUSE_TYPE = 'SNOWPARK-OPTIMIZED';
```

C)

```
ALTER WAREHOUSE wh1 SUSPEND;  
ALTER WAREHOUSE wh1 SET WAREHOUSE_TYPE = 'SNOWPARK-OPTIMIZED';
```

D)

```
ALTER WAREHOUSE wh1 SET WAREHOUSE_TYPE = 'SNOWPARK-OPTIMIZED';
```

### **Question 5:**

**When should you use a Snowflake-optimized warehouse? (choose two)**

- A) When training a machine learning model on big data.
- B) When serving a machine learning model to multiple users.
- C) For workloads with large memory requirements or dependencies on a specific CPU architecture.
- D) To optimize complex SQL query performance.
- E) To cut costs when compared to using standard virtual warehouses with the same size.

### **Question 6:**

**Which parameter allows you to modify the memory resources and CPU architecture for a Snowpark-optimized warehouse? (choose one)**

- A) WAREHOUSE\_TYPE



- B) WAREHOUSE\_SIZE
- C) RESOURCE\_CONSTRAINT
- D) RESOURCE\_MONITOR

**Question 7:**

**How can you create a Snowpark session in your Python application? (choose three)**

- A) Call the `create` method of the SessionBuilder, to establish the session.
- B) Call the `connect` method of the Snowflake Connector for Python.
- C) Call the `get_active_session` method with custom connection parameters.
- D) Create a Python dictionary containing the names and values of the parameters for connecting to Snowflake.
- E) Pass a dictionary to the `Session.builder.configs` method, to return a builder object that has these connection parameters.

**Question 8:**

**Which of the following is a required Snowpark session parameter, when connecting with a key pair? (choose one)**

- A) token
- B) private\_key
- C) public\_key
- D) password
- E) key\_pair

**Question 9:**

**You try to establish a connection using the Snowflake Connector for Python and key-pair authentication. Which of the following are required connection parameters? (choose two)**

- A) host
- B) password

- C) private\_key\_file\_pwd
- D) role
- E) private\_key\_file

**Question 10:**

**You pass a Python dictionary of connection parameters to `Session.builder.config(params).create()`. However, the call failed. What was the problem? (choose one)**

- A) You passed some invalid parameters.
- B) Should call the `app_name` function of the SessionBuilder instead.
- C) Should call the `getOrCreate` method instead.
- D) Should call the `configs` method instead.

**Question 11:**

**Which of the following parameters are optional, when you connect to Snowflake with a Snowpark session? (choose three)**

- A) account
- B) password
- C) role
- D) warehouse
- E) user
- F) database

**Question 12:**

**Which is a type of parameter you can pass to the `Session.builder.config` function? (choose one)**

- A) The path to a `connections.toml` file.
- B) The name of a section from the `connections.toml` file.

- C) Individual key and value pairs from the `connections.toml` file.
- D) The name of the stage where the `connections.toml` file was loaded.

**Question 13:**

**How can you install Snowpark Python? (choose two)**

- A) Add a com.snowflake dependency to the `pom.xml` file of your Maven project.
- B) `pip install snowflake-connector-python`
- C) `pip install snowflake-snowpark-python`
- D) `conda install snowflake-snowpark-python`
- E) `conda install snowflake-connector-python`

**Question 14:**

**Which of the following will install the “pandas on Snowflake” API? (choose one)**

- A) `pip install "snowflake-snowpark-python[pandas]"`
- B) `pip install "snowflake-snowpark-python[modin]"`
- C) `pip install snowflake-snowpark-python`
- D) `pip install snowflake-connector-python`

**Question 15:**

**What is returned by the following query, that you can execute in a SQL worksheet in the Snowflake web UI? (choose one)**

```
select distinct $4
from snowflake.information_schema.packages
where $3 = 'python';
```

- A) The path for all Python runtimes deployed in a Snowflake warehouse.
- B) All versions of the Python runtimes for the supported Snowpark packages.
- C) All versions of the supported Snowpark packages.
- D) All versions for your deployed Snowpark applications.

**Question 16:**

**You call `DESC PROCEDURE` on a stored procedure that you previously created and registered with Snowpark Python. Which of the following is a possible information returned for `PACKAGES`? (choose one)**

- A) `['cloudpickle==2.2.1']`
- B) `['pandas']`
- C) `['snowflake-snowpark-python', 'cloudpickle==2.2.1']`
- D) `['snowflake-snowpark-python']`

**Question 17:**

**What happens when you deploy a stored proc through Snowpark Python using a supported Anaconda package but with an unspecified version? (choose two)**

- A) The stored proc will fail to be registered, as the version is required.
- B) If you have a more recent version installed locally in your test environment, that version will be deployed.
- C) When a more recent version becomes available, Snowflake may automatically use that version for your package.
- D) Snowflake will automatically select the oldest version of that supported package.
- E) Snowflake will automatically select the latest version of that supported package.

**Question 18:**

**You register and execute a stored proc with Snowpark Python from a local environment. You have a more recent version of one of your packages than any other version deployed for that supported package. What will happen at runtime? (choose one)**

- A) The stored proc will fail to be executed.
- B) You get a warning for the version mismatch, but the execution will go ahead.
- C) Your specific version will be automatically deployed on the Snowflake warehouse.

- D) A message will be automatically sent to the Snowflake customer support, to include your package version in their list of supported Anaconda packages.

**Question 19:**

**You installed Snowpark Python in your local virtual environment a while ago, with *pip*. A new version became available. How do you install it? (choose one)**

- A) You run again `pip install snowflake-snowpark-python` from the command line.
- B) You run `pip install snowflake-snowpark-python --upgrade`.
- C) You run `pip upgrade snowflake-snowpark-python`.
- D) You run `pip update snowflake-snowpark-python`.

**Question 20:**

**You registered a stored procedure with a supported Python package, but without specifying a version. How can you quickly check which version has been deployed, for that package and its eventual dependencies? (choose one)**

- A) Call DESC PROCEDURE and look at the PACKAGES row.
- B) Call DESC PROCEDURE and look at INSTALLED\_PACKAGES row.
- C) Call SHOW PROCEDURES.
- D) Query the INFORMATION\_SCHEMA.PACKAGES view.