Python Data Analysis Quiz

1. Q: What Python function is used for connecting to a SQL database using SQLAlchemy?

* create\_engine()
* connect()
* open\_database()
* sql\_connect()

1. Q: In pandas, which function is used to combine data from two differently-indexed DataFrames?

* merge()
* join()
* concat()
* combine()

1. Q: When performing data cleaning in Python, which method is commonly used to check for missing values in a DataFrame?

* isnull()
* isna()
* has\_null()
* missing()

1. Q: In matplotlib, which function would you use to create a histogram?

* plot.hist()
* hist()
* bar()
* scatter()

1. Q: To perform element-wise addition of two NumPy arrays 'A' and 'B', which operator would you use?

* +
* \*
* /
* &

1. Q: What is the primary function of the seaborn library in Python?

* Web scraping
* Database management
* Statistical data visualization
* Machine learning

1. Q: Which method in pandas is used to filter data based on column values?

* filter()
* where()
* query()
* select()

1. Q: In Python, what is the output of 'len([1, 2, 3, 4, 5])'?

* 5
* 4
* 10
* Error

1. Q: Which command is used in SQL to sort data?

* SORT
* ORDER BY
* ARRANGE
* ALIGN

1. Q: In NumPy, what function is used to create an identity matrix?

* eye()
* identity()
* diagonal()
* id\_matrix()