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**1.** Which of the following are key roles related to dealing with data in an organization?                                    `1 / 1 point`

Select all options that apply.

☑ Database Administrators

> ⊘ **Correct**
> There are three key job roles that deal with data in most organizations. Database Administrators. Data Engineers and Data Analysts

☐ System Administrators

☑ Data Engineers

> ⊘ **Correct**
> There are three key job roles that deal with data in most organizations. Database Administrators. Data Engineers and Data Analysts.

☑ Data Analysts

> ⊘ **Correct**
> There are three key job roles that deal with data in most organizations. Database Administrators. Data Engineers and Data Analysts.

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**2.** Who is responsible for the design, implementation, maintenance, and operational aspects of on-premises and cloud-based database solutions built on Azure data services and SQL Server?                                    `1 / 1 point`

○ Data Engineers

○ Data Analysts

◉ Database Administrators

> ⊘ **Correct**
> Database Administrators manage databases, assigning permissions to users, storing backup copies of data, and restore data in case of any failures.

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**3.** Who is responsible for designing and building scalable models, cleaning and transforming data, and enabling advanced analytics capabilities through reports and visualizations?                                    `1 / 1 point`

◉ Data Analysts

○ Database Administrators

○ Data Engineers

> ⊘ **Correct**
> Data Analysts explore and analyze data to create visualizations and charts to enable organizations to make informed decisions.

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**4.** True or False?                                    `1 / 1 point`

Azure Data Studio is a cross-platform database administration tool that provides a graphical user interface for managing many different database systems and provides connections to:

- On-premises SQL Server databases
- Azure SQL Database
- PostgreSQL
- Azure SQL Data Warehouse

◉ True

○ False

> ⊘ **Correct**
> Azure Data Studio provides a graphical user interface for managing many different database systems.

It currently provides connections to on-premises SQL Server databases, Azure SQL Database, PostgreSQL, Azure SQL Data Warehouse, and SQL Server Big Data Clusters, amongst others.

It's an extensible tool, and you can download and install extensions from third-party developers that connect to other systems or provide wizards that help to automate many administrative tasks.

**5.** Which role is responsible for the following tasks?　　　　　　　　　　　　　　　　`0 / 1 point`

- Developing processes for creating and retrieving information from data sets.
- Using programming languages and tools to examine the data.
- Identifying ways to improve data reliability, efficiency, and quality.
- Researching industry and business questions

○ Data Engineers

○ Database Administrators

◉ Data Analysts

⊗ **Incorrect**
Data Analysts explore and analyze data to create visualizations and charts to enable organizations to make informed decisions.

**6.** Which role is responsible for the following tasks:　　　　　　　　　　　　　　　　`1 / 1 point`

- Making large or complex data more accessible, understandable, and usable.
- Creating charts and graphs, histograms, geographical maps, and other visual models
- Transforming, improving, and integrating data from many sources
- Combining the data result sets across multiple sources

◉ Data Analysts

○ Database Administrators

○ Data Engineers

⊘ **Correct**
Data Analysts explore and analyze data to create visualizations and charts to enable organizations to make informed decisions.

`1 / 1 point`

**7.** True or False?

Microsoft Power BI is a powerful visualization platform, to create rich, graphical dashboards and reports over data that can vary dynamically.

◉ True

○ False

⊘ **Correct**
Power BI is a collection of software services, apps, and connectors that work together to turn your unrelated sources of data into coherent, visually immersive, and interactive insights.

`1 / 1 point`

**8.** True or False?

SQL Server Management Studio enables you to generate Transact-SQL scripts allowing for the scheduling and automation of many common tasks.

◉ True

○ False

⊘ **Correct**
A useful feature of SQL Server Management Studio is the ability to generate Transact-SQL scripts for almost all of the functionality that SSMS provides. This gives the DBA the ability to schedule and automate many common tasks.