

## Module 5 Quiz: IDEs, Version Control, and Collaboration

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**1. Which feature of an IDE application helps the cloud data analyst to detect possible errors in the code?**

- A. Metadata finder
- B. Version control
- ☒ C. Built-in debugger
- D. File access

 **Feedback:**

The **built-in debugger** in an IDE highlights potential errors and suggests fixes, helping analysts write cleaner, error-free code.

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**2. How does an IDE application help a cloud data analyst obtain information about the structure of the data model to write the code more efficiently?**

- A. An IDE allows a cloud data analyst to better organize their code.
- B. An IDE helps a cloud data analyst by checking and fixing the code syntax.
- C. An IDE helps a cloud data analyst by highlighting and fixing possible errors in the code.
- ☒ D. An IDE allows a cloud data analyst to easily find a model's metadata.

 **Feedback:**

Accessing **metadata** within the IDE helps analysts understand the data model's structure, improving accuracy and efficiency in coding.

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**3. Morgan and Whitney are cloud data analysts working collaboratively on a dashboard. They create a repository to control the versions of the dashboard code and manage changes. A few days later, Morgan noticed that Whitney's code was impacting the main dashboard code. What is most likely the cause of this problem?**

- A. Morgan shared the wrong branch with Whitney.
- B. Morgan's branch is a ramification of Whitney's branch.
- ☒ C. Whitney did not create a branch and is working on the main code.
- D. Whitney shared the wrong branch with Morgan.

 **Feedback:**

Working directly on the **main code** without creating a branch can unintentionally affect the live project. Branching isolates changes until they're ready to be merged.

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#### 4. Why do cloud data analysts use the version control process?

- ☒ **A. To work independently, track changes, collaborate, and test new features**
- B. To create multiple designs of the dashboard and identify them**
- C. To make it easier for team members to communicate with the stakeholders**
- D. To allow team members to have their silos identified**

##### **Feedback:**

**Version control** supports independent development, collaboration, and safe testing before deployment, especially in complex projects.

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#### 5. A cloud data analyst is developing a visualization using data modeling language. How does an Integrated Development Environment (IDE) application help the data analyst to develop the visualization more efficiently?

- A. An IDE application is easy to integrate with the visualization.**
- B. An IDE application improves communication between the cloud data analyst and stakeholders.**
- C. An IDE application helps to process the stakeholders' feedback.**
- ☒ **D. An IDE application has all the tools needed for development in one environment.**

##### **Feedback:**

An IDE centralizes tools like code editors, debuggers, metadata access, and version control, making development faster and more organized.