

# Routine Database Maintenance for Smooth Operation

## Part 1: Office Roleplay Dialogue

**Scenario:** A Database Administrator, Haruto, is discussing database **maintenance** tasks with his colleague, Emma, to ensure the system runs efficiently.

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**Emma:** Hey Haruto, have you finished the scheduled database **maintenance** for this week?

**Haruto:** Almost! I've applied a **patch** to fix some minor security vulnerabilities.

**Emma:** That's good. What about the software **update**? Are we upgrading to the latest database version?

**Haruto:** Yes, but we need to test the **update** in a staging environment first to make sure it doesn't cause any issues.

**Emma:** Makes sense. Are we keeping track of all changes for **versioning** purposes?

**Haruto:** Absolutely. Each change is logged so we can easily roll back if necessary.

**Emma:** Great! I also heard we have a system **migration** coming up. Are we moving to a new database server?

**Haruto:** Yes, we're migrating to a cloud-based system for better scalability and performance.

**Emma:** That's a big step! Will there be any downtime during the **migration**?

**Haruto:** We're planning it during off-hours to minimize disruption, and we'll have a backup ready just in case.

**Emma:** Sounds like a solid plan. Let me know if you need help with testing after the upgrade.

**Haruto:** Thanks, Emma! I'll check everything again after the **patch** is applied and let you know.

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## **Part 2: Comprehension Questions**

**1. What has Haruto recently applied to fix security vulnerabilities?**

- (A) A new password policy
- (B) A firewall rule
- (C) A patch
- (D) A server restart

**2. Why does Haruto want to test the update in a staging environment?**

- (A) To ensure it doesn't cause issues
- (B) To increase storage space
- (C) To reduce database size
- (D) To remove unnecessary files

**3. What is versioning used for in database maintenance?**

- (A) To reduce network traffic
- (B) To delete old database entries
- (C) To speed up queries
- (D) To keep track of changes and allow rollbacks

#### 4. Why is Haruto performing a migration?

- (A) To change the company's website design
  - (B) To move the database to a cloud-based system
  - (C) To remove duplicate files
  - (D) To install new desktop software
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### Part 3: Key Vocabulary Definitions in Japanese

1. **Maintenance (メンテナンス)** – システムやデータベースを正常に動作させるための定期的な保守作業。
  2. **Patch (パッチ)** – セキュリティの脆弱性やバグを修正するためのソフトウェア更新。
  3. **Update (アップデート)** – システムやソフトウェアの新しいバージョンへの更新。
  4. **Versioning (バージョニング)** – 変更履歴を記録し、必要に応じて元のバージョンに戻せるようにする管理手法。
  5. **Migration (移行)** – データベースやシステムを別の環境に移動するプロセス。
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### Part 4: Questions & Correct Answers

**1. What has Haruto recently applied to fix security vulnerabilities?**

☒ (C) A patch

**2. Why does Haruto want to test the update in a staging environment?**

☒ (A) To ensure it doesn't cause issues

**3. What is versioning used for in database maintenance?**

☒ (D) To keep track of changes and allow rollbacks

**4. Why is Haruto performing a migration?**

☒ (B) To move the database to a cloud-based system