In Previous Years Questions

1. phpMyAdmin

phpMyAdmin is a free and open-source administration tool for managing MySQL and MariaDB databases.

It is a web-based interface that allows users to interact with their databases by executing SQL queries, managing tables, exporting and importing data, and more.

phpMyAdmin provides a user-friendly graphical interface for database administration, making it easier for users who may not be familiar with command-line interfaces.

2. Database Bugs

The term “database bugs” might refer to issues or problems that can arise in database systems.

Common challenges or bugs related to databases include:

- Data Integrity Issues: Inconsistencies or inaccuracies in the data due to various reasons, such as incorrect updates or deletions.
- Performance Problems: Slow query execution, inefficient indexing, or poorly optimized database schema can lead to performance issues.
- Security Vulnerabilities: Improperly configured permissions, lack of encryption, or other security oversights can make a database vulnerable to unauthorized access.
- Concurrency Issues: Problems arising from multiple users trying to access or modify the same data simultaneously, leading to conflicts.

- Backup and Recovery Challenges: Difficulties in creating reliable backups or restoring data in case of failures.
- SQL Injection: A security vulnerability where malicious SQL code is inserted into a query, potentially leading to unauthorized access or data manipulation.
- Transaction Failures: Issues related to the proper execution of transactions, which may fail to commit or roll back correctly.
- Indexing Problems: Incorrectly designed or missing indexes can impact query performance.

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17. What do you mean by bandwidth? Discuss cache and its types.