

Question 1: Single Select

Which of the following statements about SQL and NoSQL databases is TRUE?

- A) SQL databases are always faster than NoSQL databases
- B) NoSQL databases are primarily designed for high-complexity relational queries
- C) SQL databases use structured schemas, while NoSQL databases are schema-less
- D) NoSQL databases cannot support ACID compliance

Correct Answer: C

Question 2: Single Select

Which of the following is NOT a benefit of using an Object Relational Mapper (ORM)?

- A) Simplifies database queries by using method calls
- B) Ensures consistency by using the same programming language for all operations
- C) Automatically generates efficient queries for every use case
- D) Provides a secure abstraction layer to prevent SQL injection

Correct Answer: C

Question 3: Multi Select

What is the purpose of the schema.prisma file in a Prisma setup? (Select all that apply)

- A) It defines the models used in the application
- B) It automatically syncs changes to the database without any commands
- C) It specifies the database provider and connection details
- D) It allows developers to define relationships and field attributes for models

Correct Answer: A, C, D

Question 4: Multi Select

Why are database migrations critical in a full-stack development environment? (Select all that apply)

- A) They ensure schema changes are synchronized across development, staging, and production environments
- B) They allow developers to modify application code without considering the database schema

- C) They provide a way to revert changes if something goes wrong
- D) They handle issues like large-scale ALTER TABLE operations without affecting application functionality

Correct Answer: A, C