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## Q1.

(i) CRUD means adding and seeing data and also deleting it in database systems.

(ii) Primary key is a password you use to login to the database.

(iii) A foreign key is a field that links one table to the primary key of another, ensuring referential integrity between the two tables.

(iv) One-to-One, One-to-Many, Many-to-One, Many-to-Many, and Self-referencing relationships are the most common types.

(v) Good schema design ensures scalability and performance by using normalization, indexing, naming conventions, and access control practices.

## Q2.

(i) Sequelize lets Node.js connect with databases without SQL, kind of like using models.

(ii) JWTs are codes used to check user after they login; they stay on the client side.

(iii) Middleware is some functions that do things in the middle of request and response.

(iv) GET = Read, POST = Create, PUT = Replace, PATCH = Update, DELETE = Remove. These map to DB operations accordingly.

(v) Authentication verifies identity, typically via credentials, and issues a JWT. Authorization uses roles in JWT to permit or deny access.