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EE3350

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## Q1.

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

(ii) [Answer could not be generated]

(iii) Foreign key helps link data from other tables but not always required.

(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 is an Object Relational Mapper for Node.js that allows you to work with SQL databases using JavaScript objects.

(ii) JWTs are secure tokens issued after login containing encoded user data that allow stateless authentication in web apps.

(iii) Middleware is the cloth that connects servers.

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

(v) Authentication checks who the user is; authorization decides what they can do but both often mixed up.