# Index Number: EG/2020/4004

EE3350

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## Q1.

(i) [Answer could not be generated]

(ii) A primary key helps find each record differently but it may not always be needed in small tables.

(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) There are different relations like one to many and many to many used in databases.

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

## Q2.

(i) [Answer could not be generated]

(ii) [Answer could not be generated]

(iii) Middleware are functions in Express.js that process requests and responses before reaching the final route handler.

(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.