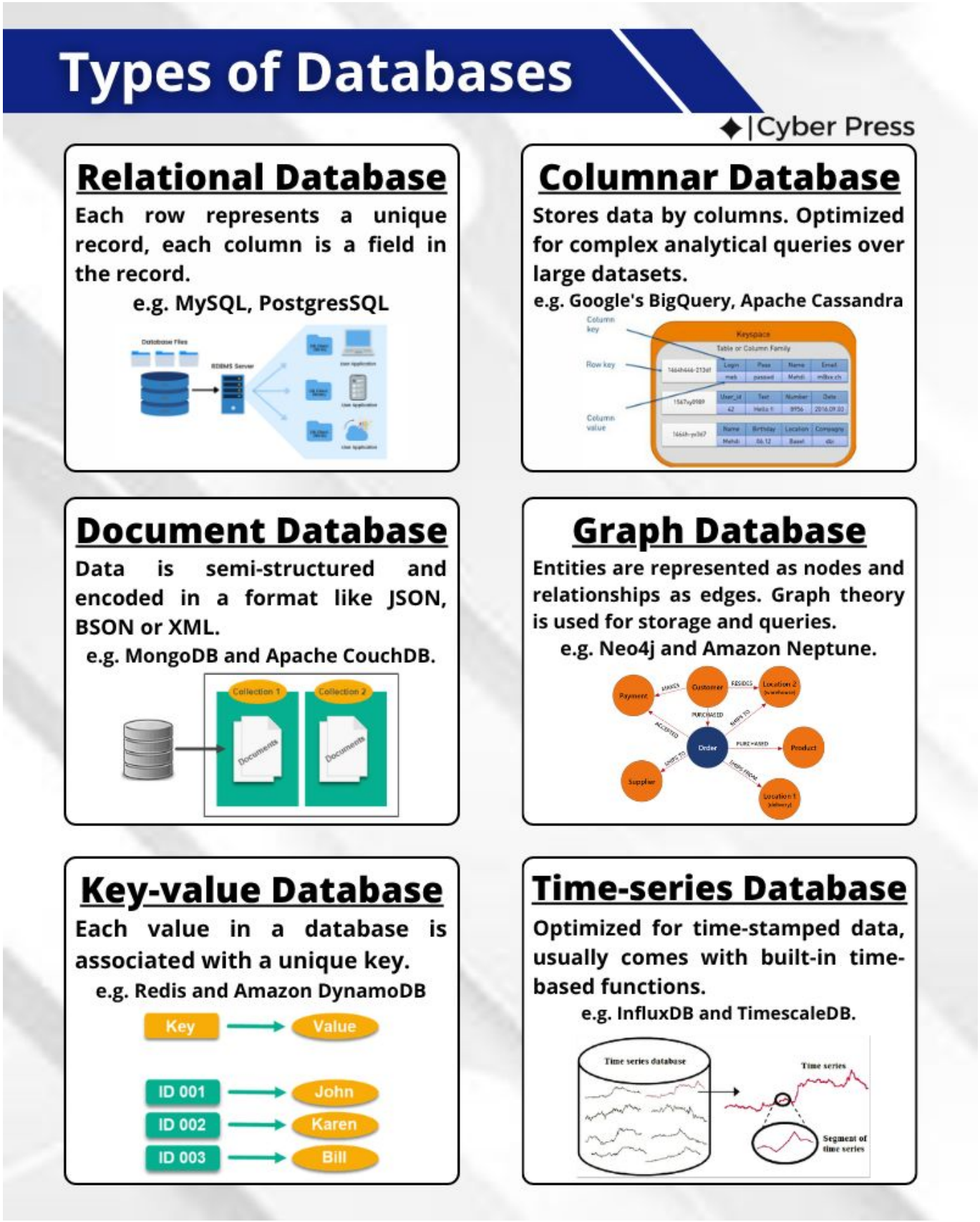
Databases


Types of Databases
✦|Cyber Press
Relational Database
Each row represents a unique record, each column is a field in the record.
e.g. MySQL, PostgresSQL
Columnar Database
Stores data by columns. Optimized for complex analytical queries over large datasets.
e.g. Google's BigQuery, Apache Cassandra
Column key
Row key
Column value
Keyspace
Table or Column Family
Document Database
Data is semi-structured and encoded in a format like JSON, BSON or XML.
e.g. MongoDB and Apache CouchDB.
Collection 1
Collection 2
Documents
Graph Database
Entities are represented as nodes and relationships as edges. Graph theory is used for storage and queries.
e.g. Neo4j and Amazon Neptune.
Payment
Customer
Order
Product
Supplier
Key-value Database
Each value in a database is associated with a unique key.
e.g. Redis and Amazon DynamoDB
Key
Value
ID 001
John
ID 002
Karen
ID 003
Bill
Time-series Database
Optimized for time-stamped data, usually comes with built-in time-based functions.
e.g. InfluxDB and TimescaleDB.
Time series database
Time series
Segment of time series

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