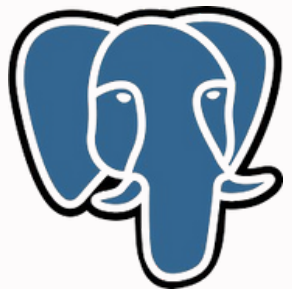


# What is PostgreSQL?



- PostgreSQL is a powerful, open-source relational database system.
- It stores data in rows and tables using SQL (Structured Query Language).
- It's known for stability, performance, and data integrity.

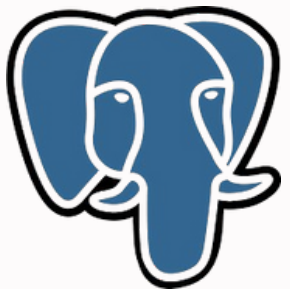


# Why use PostgreSQL?



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- It's free and open-source.
- Supports complex queries, joins, transactions, indexing.
- Great choice for scalable and secure apps.
- Widely used in startups to enterprise-level apps.



# Power of PostgreSQL (SQL + NoSQL hybrid)



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- It's relational like MySQL (tables, schemas, joins).
- But also supports NoSQL features like:
  - JSON & JSONB columns
  - Full-text search
  - Arrays and custom data types
- So, it gives you the power of both SQL and NoSQL in one system.



# What is TypeORM?



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- TypeORM is an Object Relational Mapper for TypeScript.
- It connects your NestJS app with PostgreSQL using OOP-style code.
- You define tables as classes using decorators like @Entity, @Column, etc.
- It makes database queries easier, readable, and type-safe.

