

Databank

7 Database Paradigms - 7 Database Paradigms 9 minutes, 53 seconds - 00:00 Intro 00:45 Key-value 01:48 Wide Column 02:47 Document 04:05 Relational 06:21 Graph 07:22 Search Engine 08:27 ...

Intro

Key-value

Wide Column

Document

Relational

Graph

Search Engine

Multi-model

Vector Database Explained | What is Vector Database? - Vector Database Explained | What is Vector Database? 6 minutes, 52 seconds - AI startups such as Pinecone, Milvus, and Chromadb have raised millions of \$ in the hot AI boom era. They all have a common ...

Intro

Embedding

Word to Whack

Traditional Database

Locality Sensitive hashing

7 Must-know Strategies to Scale Your Database - 7 Must-know Strategies to Scale Your Database 8 minutes, 42 seconds - Animation tools: Adobe Illustrator and After Effects. Checkout our bestselling System Design Interview books: Volume 1: ...

What is a Vector Database? - What is a Vector Database? 8 minutes, 12 seconds - AI increasingly relies the vector **database**., which enables low latency queries, making them ideal for AI-driven applications.

Intro

Memory Lane

Characteristics

Use Cases

Benefits

Database Design Course - Learn how to design and plan a database for beginners - Database Design Course - Learn how to design and plan a database for beginners 8 hours, 7 minutes - This **database**, design course will help you understand **database**, concepts and give you a deeper grasp of **database**, design.

Introduction

What is a Database?

What is a Relational Database?

RDBMS

Introduction to SQL

Naming Conventions

What is Database Design?

Data Integrity

Database Terms

More Database Terms

Atomic Values

Relationships

One-to-One Relationships

One-to-Many Relationships

Many-to-Many Relationships

Designing One-to-One Relationships

Designing One-to-Many Relationships

Parent Tables and Child Tables

Designing Many-to-Many Relationships

Summary of Relationships

Introduction to Keys

Primary Key Index

Look up Table

Superkey and Candidate Key

Primary Key and Alternate Key

Surrogate Key and Natural Key

Should I use Surrogate Keys or Natural Keys?

Foreign Key

NOT NULL Foreign Key

Foreign Key Constraints

Simple Key, Composite Key, Compound Key

Review and Key Points....HA GET IT? KEY points!

Introduction to Entity Relationship Modeling

Cardinality

Modality

Introduction to Database Normalization

1NF (First Normal Form of Database Normalization)

2NF (Second Normal Form of Database Normalization)

3NF (Third Normal Form of Database Normalization)

Indexes (Clustered, Nonclustered, Composite Index)

Data Types

Introduction to Joins

Inner Join

Inner Join on 3 Tables

Inner Join on 3 Tables (Example)

Introduction to Outer Joins

Right Outer Join

JOIN with NOT NULL Columns

Outer Join Across 3 Tables

Alias

Self Join

SQL indexing best practices | How to make your database FASTER! - SQL indexing best practices | How to make your database FASTER! 4 minutes, 8 seconds - Learn about best practices for using indexes in SQL, and how they can be used to speed up your queries, make your **database**, ...

Intro

Example database table

Example query

The problem with a full table scan

Using EXPLAIN ANALYZE

What is a SQL index?

How to create a single-column index

How to create a multi-column index

Optimizing our SQL query

Caveats of sql indexes

What Is a Vector Database and How Can It Help Meet Business Needs - What Is a Vector Database and How Can It Help Meet Business Needs 2 minutes, 59 seconds - Explore the basics of how a vector **database**, works, including understanding the vector data type and vector search. Learn how ...

Microsoft Access Fitness Database Part 13: Creating a Meal Entry Form with Subform and Totals - Microsoft Access Fitness Database Part 13: Creating a Meal Entry Form with Subform and Totals 16 minutes - In this Microsoft Access tutorial I will show you how to build a subform for a meal tracking **database**,, including creating a combo ...

How To Choose The Right Database? - How To Choose The Right Database? 6 minutes, 58 seconds - ABOUT US: Covering topics and trends in large-scale system design, from the authors of the best-selling System Design Interview ...

Key Points To Consider

Read the Database Manual

Know Its Limitations

Plan the Migration Carefully

What is Database Sharding? - What is Database Sharding? 9 minutes, 5 seconds - ????? Experience \u0026 Location ????? ? I'm a Senior Software Engineer at Juniper Networks (12+ years of ...

What is database sharding?

Why is database sharding important?

What are the benefits of database sharding?

How does database sharding work?

What are the methods of database sharding?

Range-based sharding

Hashed sharding

Directory sharding

Geo sharding

How to optimize database sharding for even data distribution?

Cardinality

Frequency

Monotonic change

What is a Vector Database? Powering Semantic Search \u0026 AI Applications - What is a Vector Database? Powering Semantic Search \u0026 AI Applications 9 minutes, 49 seconds - How can you find images with similar color palettes or landscapes? ?? Martin Keen explains how vector databases use vector ...

AI Assistant Tool Wipes Out Entire Company Database | GRAVITAS - AI Assistant Tool Wipes Out Entire Company Database | GRAVITAS 3 minutes, 2 seconds - GRAVITAS | An AI coding assistant built by Software company Replit was engaged to build an app but it ended up causing a ...

Steps to perform database refresh in SQL server | Ms SQL - Steps to perform database refresh in SQL server | Ms SQL 8 minutes, 37 seconds - This video explains how to perform a **database**, refresh in SQL server. Follow the below steps a. Backup the Source **database**, b.

This New Database MCP Server is INSANE! Query SQL with Just ENGLISH ?? - This New Database MCP Server is INSANE! Query SQL with Just ENGLISH ?? 10 minutes, 2 seconds - I'll show you the all-new **Database**, MCP Server that lets you query SQL Server and SQLite using just natural language.

Database Management System (DBMS) – NPTEL July 2025 | Week 0 Assignment Answers | Learn in brief - Database Management System (DBMS) – NPTEL July 2025 | Week 0 Assignment Answers | Learn in brief 1 minute, 36 seconds - Welcome to our channel! In this video, we provide complete and accurate solutions for the Week 0 assignment of the NPTEL ...

What is DATABASE SHARDING? - What is DATABASE SHARDING? 8 minutes, 56 seconds - Sharding a **database**, is a common scalability strategy for designing server-side systems. The server-side system architecture uses ...

Introduction

Sharding - The problem

Horizontal Partitioning

Considerations

Potential Drawbacks

A challenge!

What is SQL vs No SQL database in 60 seconds? #shorts #sqlvsnosql - What is SQL vs No SQL database in 60 seconds? #shorts #sqlvsnosql by Error Makes Clever 303,871 views 10 months ago 40 seconds – play Short - Ever wondered, \"What is SQL?\" or \"What is NoSQL?\" Imagine SQL as a strict teacher who demands order—like in a classroom ...

Database Tutorial for Beginners - Database Tutorial for Beginners 5 minutes, 32 seconds - This **database**, tutorial will help beginners understand the basics of **database**, management systems. We use helpful analogies to ...

Introduction

Example

Separate Tables

Entity Relationship Diagrams

Database vs Data Warehouse vs Data Lake | What is the Difference? - Database vs Data Warehouse vs Data Lake | What is the Difference? 5 minutes, 22 seconds - Database, vs Data Warehouse vs Data Lake | Today we take a look at these 3 different ways to store data and the differences ...

DataBank's Expansion Plans - DataBank's Expansion Plans 6 minutes, 18 seconds - Marc Ganzi, DigitalBridge CEO and Raul Martynnek, **DataBank**, CEO speak with Romaine Bostick and Scarlet Fu on plans for ...

Database Replication Explained (in 5 Minutes) - Database Replication Explained (in 5 Minutes) 5 minutes, 2 seconds - In this video, we discuss **database**, replication. This involves copying data to multiple sources to prevent data loss and improve ...

Database replication strategies for distributed systems

Multileader strategy mitigates leader failure

Leaderless replication Clever methods for managing chaos

Choosing the right exponent strategy

Database Design Tips | Choosing the Best Database in a System Design Interview - Database Design Tips | Choosing the Best Database in a System Design Interview 23 minutes - One of the most important things in a System Design interview is to choose the right **Database**, for the right use case. Here is a ...

Intro

Things that matter

Caching

File storage

CDN

Text search engine

Fuzzy text search

Timeseries databases

Data warehouse / Big Data

SQL vs NoSQL

Relational DB

NoSQL - Document DB

NoSQL - Columnar DB

If none of these are required

Combination of DBs - Amazon case study.

Scale your web app: Why you need s3 and a database service #webdevelopment #database - Scale your web app: Why you need s3 and a database service #webdevelopment #database by Sam Meech-Ward 1,067,844 views 1 year ago 56 seconds – play Short - Help support me make more videos: <https://ko-fi.com/meechward> My Website: <https://www.sammeechward.com> Instagram: ...

How Does Rag Work? - Vector Database and LLMs #datascience #naturallanguageprocessing #llm #gpt - How Does Rag Work? - Vector Database and LLMs #datascience #naturallanguageprocessing #llm #gpt by Python Tutorials for Digital Humanities 274,682 views 1 year ago 58 seconds – play Short - If there's a specific video you would like to see or a tutorial series, let me know in the comments and I will try and make it.

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