

THA1 to THA4

Divided As

<u>Aa</u> Topics	@ Links	■ Resources
Postgresql and Redis	https://gist.github.com/gokulsaraswat/bcd2a343e1ae74ac2a8cc7d7f6920987	https://www.postgresql.org/about/ https://www.postgresqltutorial.com/ https://redis.io/documentation
Rest and Node.js	learn add will be created	https://restfulapi.net/ https://nodejs.org/en/docs/ https://nodejs.dev/learn/introduction- to-nodejs https://www.w3schools.com/nodejs/
DNS server	learn add will be created	https://www.cloudflare.com/en- in/learning/dns/what-is-dns/ https://aws.amazon.com/route53/what- is-dns/
<u>Untitled</u>		

DB == Drives & Schemas == Folders | create schema {schemaName};

Commands

<u>Aa</u> Description	≡ Code	
Create a Schema:	<pre>create table {schemaName}.{tableName};</pre>	
List all tables in a Schema:	<pre>\\d {schemaName}.*;</pre>	
Create a table in a Schema:	<pre>\\d {schemaName}.{tableName};</pre>	
View a specific table:	<pre>drop schema {schemaName};</pre>	
Drop Schema: If(empty Schema):	<pre>drop schema {schemaName} cascade;</pre>	
View a table's content:	<pre>select * from {tablename};</pre>	

A schema is a collection of database objects, (tables).

Tables in schema are objects.

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Aggregate Functions: Used to compute a single result from a set of input values

To count the number of rows in a table: select count(*) from {tablename};

Where clause: select {column} from {tableName} where {conditions...};

• LIKE works with strings only. So we need to type cast data types accordingly. For type casting, use ::

Redis PubSub or [1] To simulate a chat application using PUB_SUB,

- > Create a Database on Cloud (For now <u>Upstash</u> will get the work done)
- > Connect to the database via Redis
- Publish a channel on that database and Subscribe to it as well to see the published messages.

Another \Rightarrow

- · open two window linux server WSL
- · Type in redis-cli to check if it is working
- Go to upstash to make a redis cli : https://console.upstash.com/pages/
- Create a redis database and connect both the sides
- Copy the command which is given in the upstash website, it'll look like: redis-cli -u redis://bdff23be171a4f9eafb8be42a7ed9f1a@usw1-neutral-lynx-31383.upstash.io:31383
- Then simply write: SUBSCRIBE devnest
- Then write to chat: PUBLISH devsnest message

Rest can be better understood by watching and implementing simultaneously from youtube or documentation

Rest and Node

For normal package transfer in APIs, TCP/IP is used i.e., for transporting data.

For live video streaming and voice calls RTP is used.

For web access http/https is used.

Types of APIs other than REST are: SOAP and JSON RPC and XML RPC



If a website is using REST API, its data will always be in JSON format.

https://stoplight.io/api-types/

Some Snapshots for DNS Server











some more links

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<u>Aa</u> Topic	
To learn more	https://www.ibm.com/in-en/cloud/learn

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