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CLDV6211

POE Part 2

Arlo (Abby) Staples

ST10404431

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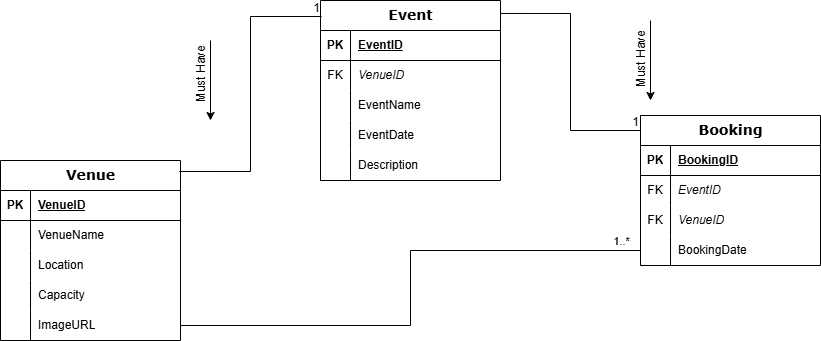
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|  |  |  |
| --- | --- | --- |
| LINKS | | |
| Azure | <https://evenease-gah5euanhbhxd3cg.southafricanorth-01.azurewebsites.net> |
| Video |  |
| GitHub | <https://github.com/StaplesArlo/CloudDevPOE.git> |

PART ONE

ERD



Azure Server

A screenshot of a computer

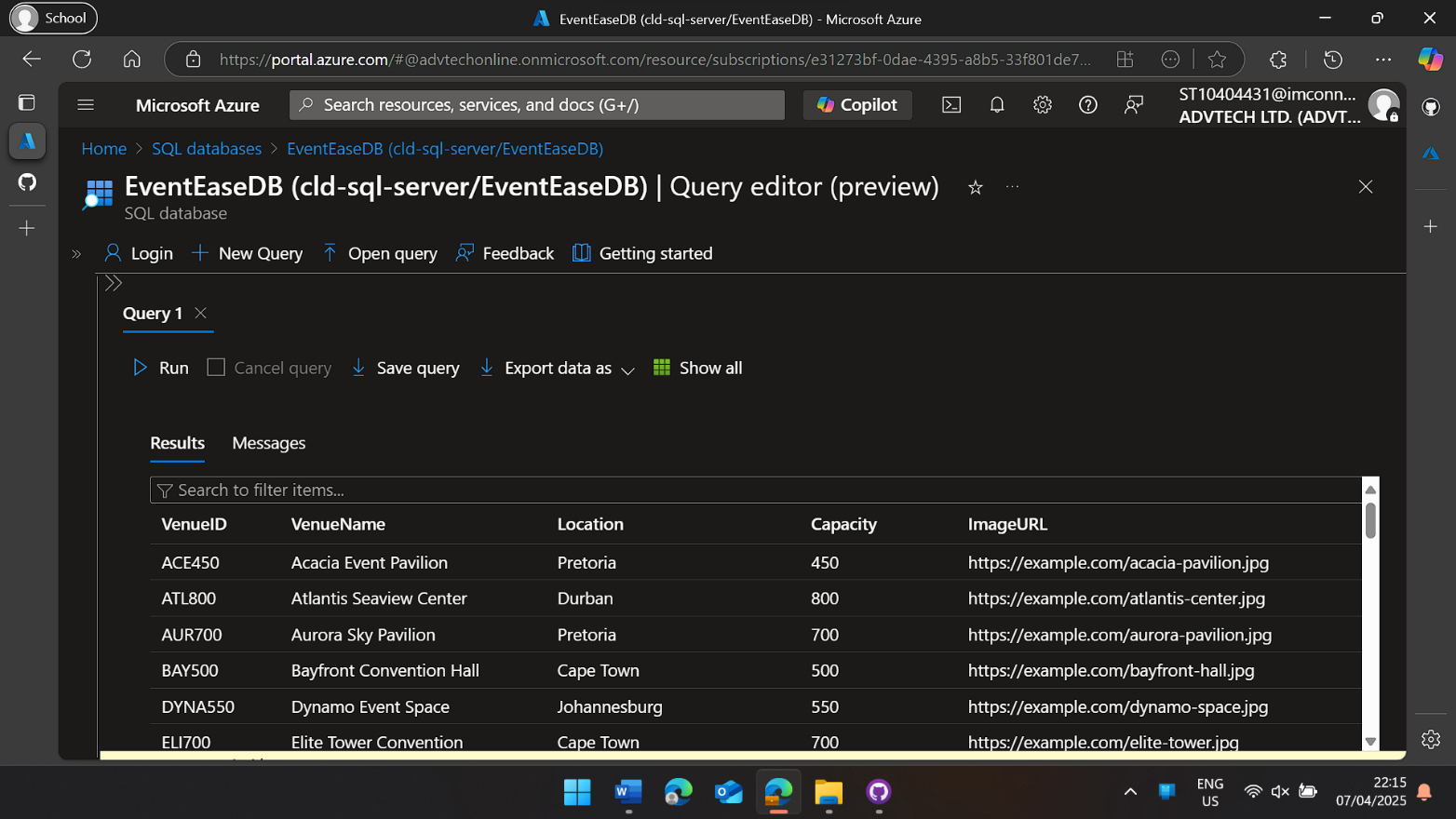
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SQL Server Azure Database

A screenshot of a computer

AI-generated content may be incorrect.

Table Results with SELECT \* FROM Venues



Web Application Home Page

A screenshot of a computer

AI-generated content may be incorrect.

Create New Event

A screenshot of a computer

AI-generated content may be incorrect.

Theoretical

Cloud Hosting Models:

Cloud hosting models define how data is stored and managed online:

* **Public Cloud**: Shared resources, cost-effective, scalable.
* **Private Cloud**: Dedicated, secure, more expensive.
* **Hybrid Cloud**: Mix of public and private for flexibility.
* **Multi-Cloud**: Uses multiple providers to avoid reliance on one.
* **Community Cloud**: Shared by groups with common needs, like healthcare or government.

On-premises vs. cloud deployment

On-premises vs. cloud deployment is about where a company’s IT infrastructure lives:

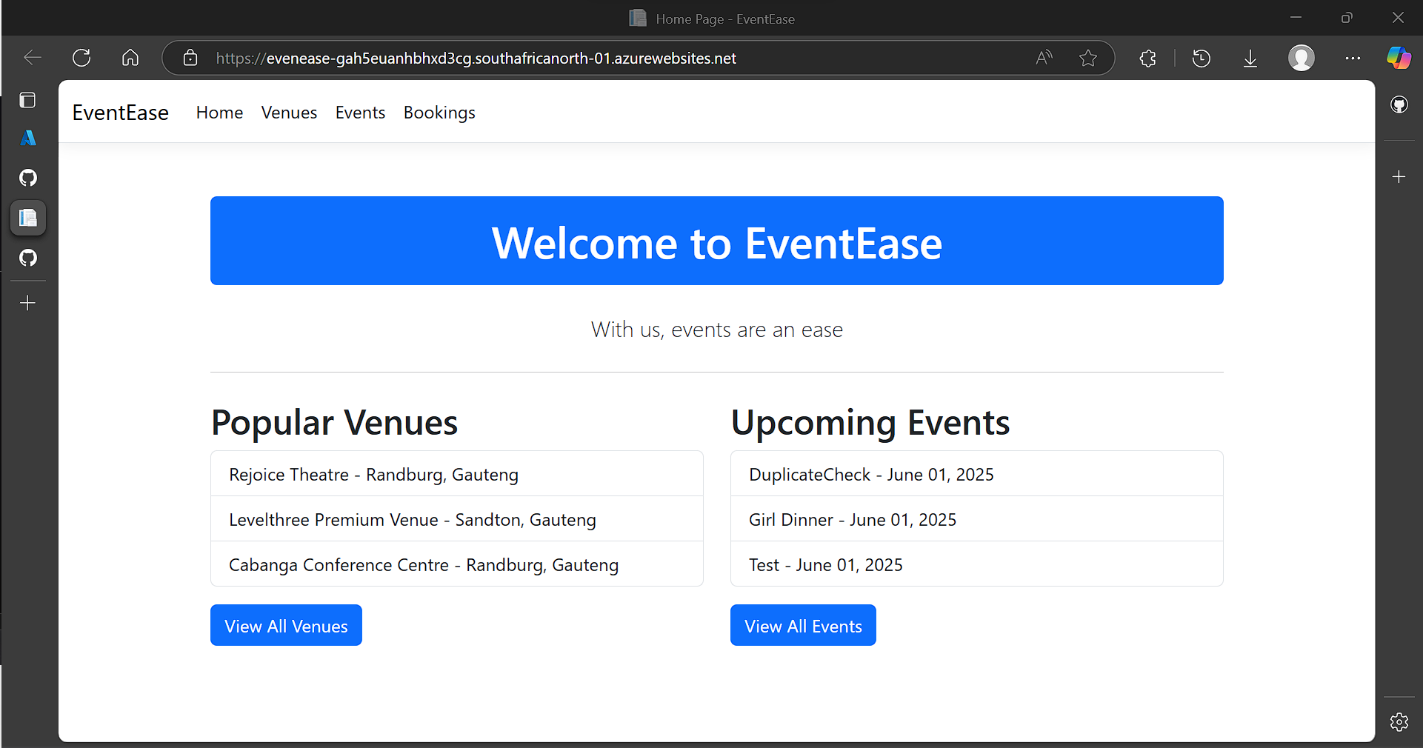
* **On-Premises**: Servers are physically owned and managed by the company. This offers complete control but requires high costs and maintenance.
* **Cloud Deployment**: Servers are hosted by providers like AWS or Azure, and businesses access them remotely. It’s more flexible and cost-effective but has some limitations on control.

PART TWO

Theoretical

1. Azure Cognitive Search is an AI-powered cloud search service that improves traditional search engines by using natural language processing, semantic ranking, and cognitive skills like OCR and sentiment analysis. Unlike basic keyword search, it indexes structured and unstructured data, scales automatically, and offers built-in security features.
2. Normalization in cloud-based design helps organize data efficiently by reducing duplication and ensuring consistency. It improves storage, speeds up queries, and makes databases easier to scale. By structuring data properly, applications run smoother and remain reliable in the cloud.
3. Relational databases use structured tables with a fixed schema, making them great for storing organized data with strict rules. NoSQL databases are flexible, handling unstructured or semi-structured data, and they scale easily across multiple servers. SQL databases work best for transactions, while NoSQL is ideal for big, fast-changing data like social media.
4. Durable Functions help cloud apps run better by managing long-running tasks without wasting resources. They allow automatic scaling, reliable execution with retries, and faster processing by running tasks in parallel. This makes apps more efficient and cost-effective in the cloud.

Home Pages



Venues Index

A screenshot of a computer

AI-generated content may be incorrect.

New Venue

A screenshot of a computer

AI-generated content may be incorrect.

Venue Details

A screenshot of a website

AI-generated content may be incorrect.

Update Venue

A screenshot of a computer

AI-generated content may be incorrect.

Delete Venue

A screenshot of a computer

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Search Venue

A screenshot of a computer

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Events Index

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Create Event

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Update/Edit Event

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Event Details

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Delete Event

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Booking Index

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New Booking

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