



Chrono Quest

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Agenda

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Goal of the game

- Collect 5 Chrono Shards from different time eras
- Travel between European airports as time portals.
- Choose destinations wisely to avoid getting stranded.
- Return to your starting airport with all shards.
- Fix the time machine and restore the world.



Why this idea?

- Epic adventure designed for fans of sci-fi and time travel.
- Combines mystery, exploration, and survival in one story.
- To give players an experience they could never have in real life.
- To give players a hero's journey across time



Database Solutions

- Biggest problem was to add timelines to airports
- Created a new column named era in airport table
- Used case statement to assign random eras to airports
- So, timelines randomly distributed among airports

```
MariaDB [test1]> ALTER TABLE airport  
-> ADD COLUMN era VARCHAR(20)  
-> DEFAULT 'MODERN';
```

A MariaDB SQL command to add column in a table

```
MariaDB [test1]> UPDATE airport  
-> SET era = CASE  
->     WHEN RAND() < 0.25 THEN 'ANCIENT'  
->     WHEN RAND() < 0.33 THEN 'MEDIEVAL'  
->     WHEN RAND() < 0.5 THEN 'FUTURE'  
->     ELSE 'MODERN'  
-> END  
-> WHERE continent = 'EU' AND type = 'large_airport';
```

A MariaDB SQL command to update

Coding Solutions

- We wanted aircrafts to spend different energy levels in different timelines
- Created a dictionary named eras
- Assigned each era with different values
- So, calculating distance is multiplied by key values of eras
- Used pyfiglet for bigger fonts

```
# Era modifiers
ERAS = {
    'ANCIENT': 1.2,
    'MEDIEVAL': 1.1,
    'MODERN': 1.0,
    'FUTURE': 0.9
}
```

[illegible]

Future development ideas

- Add a “**missions**” **table** to store time-based quests and objectives linked to each era.
- Introduce **player progress tracking** using tables for inventory, energy levels, and collected shards.
- Implement **data relationships** (foreign keys) between airports, eras, and player data for consistency.
- Add **event logging tables** to record travel history and in-game decisions.

Conclusion

- Chrono Quest demonstrates how database logic and coding can power creative gameplay.
- Using **MariaDB**, we successfully connected time-era data with in-game travel mechanics.
- Our design highlights teamwork, problem-solving, and real database integration.
- The system can now expand easily with new eras, missions, and features.

A man in a long, dark coat stands with his back to the camera, looking at a large, shattered clock face. The clock face is cracked and broken, with many pieces of the clock's structure floating in the air around it. A bright blue, glowing crack runs through the center of the clock face. The scene is set in a dark, industrial environment with debris on the floor. An hourglass is visible on the right side of the image.

THANK YOU
Q & A