**VIETNAM NATIONAL UNIVERSITY HCMC**

**UNIVERSITY OF INFORMATION TECHNOLOGY**

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**Subject: Decision support and business intelligence applications**

**Topic: World Air Quality Index Data and Analysis**

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**COMMENT**

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# Topic Overview

This report conducts research on the causes, consequences, and damage of tsunamis based on the Global Historical Tsunami Database.

This dataset represents historical tsunamis and related information, providing data on over 2,400 tsunamis from 2100 BC to the present in the Atlantic, Indian, and Pacific Oceans, as well as the Mediterranean and Caribbean Seas.

# Dictionary of Data

|  |  |  |
| --- | --- | --- |
| Column Name | Description | Data Type |
| Year | Year of the tsunami event | int |
| Mo | Month of the tsunami event | int |
| Dy | Day of the tsunami event | int |
| Hr | Hour of the tsunami event | int |
| Mn | Minute of the tsunami event | int |
| Sec | Second of the tsunami event | int |
| Tsunami Event Validity | Code indicating the validity of the tsunami event | int |
| Tsunami Cause Code | Code indicating the cause of the tsunami | int |
| Earthquake Magnitude | Magnitude of the earthquake causing the tsunami | float |
| Vol | Volcanic activity related to the tsunami | float |
| Total Missing | Total number of people missing due to the tsunami | int |
| Total Missing Description | Description of the missing persons | string |
| Total Injuries | Total number of injuries caused by the tsunami | int |
| Total Injuries Description | Description of the injuries | string |
| Total Damage ($Mil) | Total damage caused by the tsunami in millions | float |
| Total Damage Description | Description of the damage | string |
| Total Houses Destroyed | Total number of houses destroyed by the tsunami | int |
| Total Houses Destroyed Description | Description of the houses destroyed | string |
| Total Houses Damaged | Total number of houses damaged by the tsunami | int |
| Total Houses Damaged Description | Description of the houses damaged | string |

# Datawarehouse Design

Abc

Abc

Abc

# Buid Data Warehouse (SSIS)

Abc

Abc

Abc

# Data Warehouse Analysis (SSA)

Abc

Abc

Abc

# Query MDX

Abc

Abc

Abc

# Report Data (by using PowerBI)

Abc

Abc

Abc

# Pivot Table

Abc

Abc

Abc

# Data Mining

Abc

Abc

Abc

# Conclusion

Abc

Abc

Abc

# Reference

Abc

Abc

Abc