1) Explain three-dimensional indexing

Ans)**Synonyms**

Constucrion of 3d scenes

DEFINITION

semantic queries on indexed objects allow the reuse of the 3d scenes.

Introduction

nowadays, the 3d is a highly expanding media. More particularly with the emergence of dedicated standards such as vrml and x3d, 3d animations are widely used on the web. The continuous evolution of computing capabilities of desktop computers is also a factor that facilitates the large deployment of 3d information contents. At the same time the demand in term of 3d information is becoming more and more sustained in various domains such as spatial planning, risks management, telecommunications, transports, defense, and tourism.3d information should represent a real world scene as accurately as possible and should exhibit properties (like,topological relations) to allow complex spatial analysis [1].

The construction of a 3d scene is a complex and time consuming task. Thus, being able to reuse the 3d scenes is a very important issue for the multimedia…

2) what's the difference between a series and a dataframe ?

Ans)Series is a type of list which can take integer values, string values, double value and more. Series can only contain single list with index, whereas dataframes can be made of more than one series or we can say that a dataframes is a collection of series that can be used to analyse the data.

3) WHAT ROLE DOES PANDAS PLAY IN THE DATA CLEANING ?

Ans)When working with multiple data sources, there are many chances for data to be incorrect, duplicated, or mislabeled. If data is wrong, outcomes and algorithms are unreliable, even though they may look correct. Data cleaning is the process of changing or eliminating garbage, incorrect, duplicate, corrupted, or incomplete data in a dataset. There's no such absolute way to describe the precise steps in the data cleaning process because the processes may vary from dataset to dataset. Data cleansing, data cleansing, or data scrub is that the initiative among the general data preparation process. Data cleaning plays an important part in developing reliable answers and within the analytical process and is observed to be a basic feature of the info science basics. The motive of data cleaning services is to construct uniform and standardized data sets that enable data analytical tools and business intelligence easy access and perceive accurate data for each problem.

4) *How do you use pandas make a data frame out of n-dimensional arrays ?*

- ANS)Here's a very simple example to convert an array to a dataframe:

- import pandas as pd # Create the dataframe df = pd.DataFrame(numpy_array)

- df = pd.DataFrame(numpy_array, columns=['digits', 'words']) …

- df = pd.DataFrame(numpy_array, index=['day1', 'day2', 'day3', 'day4'], columns=['digits', 'words'])

5) Explain the motion of pandas plotting.

- *ANS*)Pandas uses the plot() method to create diagrams. We can use Pyplot, a submodule of the Matplotlib library to visualize the diagram on the screen. Read more about Matplotlib in our Matplotlib Tutorial

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- Here are the steps to plot a scatter diagram using Pandas.

- Step 1: Prepare the data. To start, prepare the data for your scatter diagram. …

- Step 2: Create the DataFrame. Once you have your data ready, you can proceed to create the DataFrame in Python. …

- Step 3: Plot the DataFrame using Pandas