ASSINGMENT 1

Q1 Describe three challenges to data mining regarding data mining methodology

Q2 Compare OLTP and OLAP.

Q3. With suitable example diagram explain various steps of a KDD process and Briefly explain each step

Q4 What is data preprocessing? Explain the different steps in data preprocessing

Q5. What is predictive and descriptive data mining .explain in brief any two task for both predictive and descriptive data mining with one example .

Q6.Discuss whether or not each of the following activities is a data mining task.
i)   Computing the total sales of a company.
ii)   Predicting the future stock price of a company using historical records.
iii) Predicting the outcomes of tossing a pair of dice.

Q7 following data for the attribute age:
    13,15,16,16,19,20,20,21,22,22,25,25,25,25,30,33,33,35,35,35,35,36,40,45,46,52,70

a) Use smoothing by bin means to smooth these data, using a bin depth of 3
b) How might u determine outliers in the data?
c) What other methods are there for data smoothing?

Q8 In real-world data, tuples with missing values for some attributes are a common occurrence. Describe various methods for handling this problem

Q9 Consider the following group of data
    200, 300, 400, 600,1000
i)   Use the min-max normalization to transform value 600 onto the range [0.0,1.0].
ii)   Use the decimal scaling to transform value 600.

Q10 What are the OLAP operations

Q11.explain normalization:-
    Min-max normalizations
    Z-score normalizations
    Decimal scaling
Q12 Differentiate between:-
a)   Supervised learning and unsupervised learning
b) classification and regression
c)   Descriptive and predictive data mining task

HOD   Incharge faculty:-