



COMP4433 Quiz 5



Deadline to submit your answers: 3:30pm 21 Nov 2023

Hi, Fu Lai Korris. When you submit this form, the owner will see your name and email address.

1. Data Preprocessing lecture notes suggested the use of attribute mean for all samples belonging to the same class to fill in the missing value. Which of the following ways to define the class is feasible? Pick the best answer.  



- ☐ Define the class by a categorical attribute
- ☐ Define the class according to the clustering result of the dataset
- ☐ Define the class by using multiple categorical attributes
- ☒ All of the above

1st: e.g. gender or age
2nd: e.g. using k-means to obtain k clusters, i.e., classes
3rd: e.g. income level AND age category

2. Data reduction can be carried out by  

- ☐ histogram method
- ☐ classification
- ☐ clustering
- ☒ All of the above

As mentioned in slide 24, data reduction strategies include numerosity reduction (histogram), dimensionality reduction (slide 33 decision tree and slide 36 clustering).

3. If the relationship between fact and dimension table in a star schema is one to many. What is the type of relationship between fact and dimension table in a snowflake schema? Pick the best answer.  

- ☐ One to one
- ☒ One to many
- ☐ Many to one
- ☐ Many to many
- ☐ All of the above

In snowflake schema, we still have only 1 fact table, hence, 1 fact table connecting with multiple dimension tables.

Some statistics for your reference:

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131

Responses


23:01

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1. Data Preprocessing lecture notes suggested the use of attribute mean for all samples belonging to the same class to fill in the missing value. Which of the following ways to define the class is feasible? Pick the best answer.

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- ☐ Define the class by a categorical... 42
- ☐ Define the class according to th... 12
- ☐ Define the class by using multipl... 5
- ☐ All of the above 72

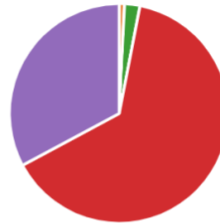


2. Data reduction can be carried out by

[More Details](#)

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- ☐ histogram method 0
- ☐ classification 1
- ☐ clustering 3
- ☐ All of the above 84
- ☐ Both histogram method and clu... 43



3. If the relationship between fact and dimension table in a star schema is one to many. What is the type of relationship between fact and dimension table in a snowflake schema? Pick the best answer.

[More Details](#)

- ☐ One to one 0
- ☐ One to many 102
- ☐ Many to one 20
- ☐ Many to many 7
- ☐ All of the above 2

