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(1)

Briefly explain important approaches to build the data

Define KDD. Identify the phases in KDD process.

Why data warehouse is maintained separately from

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(c)

(d)

(e)

warehouse.

database?

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set:

criteria?

the methods that can be used for selecting the splitting

Draw a box-and-whisker plot for the following data

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Yellow

Yellow

Also find the outliers.

150, 154, 155, 158, 158.

144, 145, 146, 147, 148, 148, 149, 149, 150, 150,

126, 132, 138, 140, 141, 141, 142, 143, 144, 144,

SAttempt any five questions from this section. (110×5=50) **a** ETL process. Section-B

Draw the 3-tier data warehouse architecture. Explain Explain the various types of OLAP servers. What are Write the algorithm of decision tree induction. What are the steps for efficient processing of OLAP queries? Origin = 'DOMESTIC'} using Naive Bayesian classification. Training data is given in the following table where class label

Classify the tuple X= {Color = 'RED', Type = 'SUV' Attempt any two questions from this section. $(15\times2=301)$

Section-C

(ii) Explain now query performance can be improved by

cascading the operations.

Sports Sports Sports Sports Sports Domestic Imported Domestic Domestic Domestic Z ĕ Vo ĕ æ

Red

Red

Red

Color

Type

Origin

Stolen?

WAN LIEST

is {STOLEN}.

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- 4. (i) Describe the difference between the following approaches for the integration of data mining system with database or data warehouse systems: no coupling, loose coupling and semi tight coupling.
 - (ii) Define and describe the basic similarities and differences among ROLAP, MOEAP and HOLAP.
- 5. Explain Chi-square test method. Show using chi-square test that gender and preferred reading are independent or not from given table. (Given are the observed counts).

	Male	Female	Total
Fiction	250	200	450
Non-Fiction	50	1000	1050
Total	300	1200	1500

<u>(4)</u>

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