Assignment # 2

Deadline: Saturday 01/04/2017 @ 23:59

**[Total Mark for this Assignment is 4]**

***IT446- Data Mining and Data Warehousing***

**Instructions:**

* This Assignment must be submitted on Blackboard via the allocated folder.
* Email submission will not be accepted.
* You are advised to make your work clear and well-presented, marks may be reduced for poor presentation.
* You MUST show all your work.
* Late submission will result in ZERO marks being awarded.
* Identical copy from students or other resources will result in ZERO marks for all involved students.
* Convert this Assignment to PDF just before submission.

Student Details:

|  |  |  |
| --- | --- | --- |
|  |  |  |
| **Name:** ###  **CRN:** ### |  | **ID:** ### |
|  |  |  |

# Question One

***1 Mark***

*Learning Outcome(s):*

*Demonstrates understanding of data cube computation techniques*

Describe the four general optimization techniques for efficient computation of data cubes.

# Question Two

***1 Mark***

*Learning Outcome(s):*

*Demonstrates understanding and identification of frequent itemsets and calculating their support value*

Consider transaction table below to answer the following question.

|  |  |
| --- | --- |
| TID | Items |
| T100 | A, C, D, E |
| T101 | A, C, E |
| T102 | B, D, E, F |
| T103 | A, D, E, F |
| T104 | B, C, F |
| T105 | A, B, C, D, E |

If we set minimum support count equal to 50%, list all frequent itemsets along with their support count percentage.

# Question Three

***1 Mark***

*Learning Outcome(s):*

*Demonstrates understanding of …………..*

What is Association Rule? Discuss with example?

Answer:

# Question Four

***1 Mark***

*Learning Outcome(s):*

*Demonstrates understanding of ………………..*

What is Apriori algorithm, discuss its advantages and disadvantages?

Answer: