**Birla Institute of Technology and Science, Pilani**

End-semester examination

IMG_256

**Data management & warehousing**

Answer key

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | BCNF | 6 | BCNF |
| 2 | 1NF | 7 | 3NF |
| 3 | 1NF | 8 | 3NF |
| 4 | 1NF | 9 | 2NF |
| 5 | 3NF | 10 | 11 |

|  |  |
| --- | --- |
| 11 | * 6 * 2 * 0 * 0 * 2 |
| 12 | * FALSE * TRUE * FALSE * Describe the table & it can also be used to sort the tuples in descending order * FALSE |
| 13 | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | **V1** | **V2** | **V3** | **V4** | **V5** | **V6** | **V7** | **Clust. coefficient** | **Degree centrality** | **Closeness Centrality** | **Betweennes Centrality** | | **V1** | 0 | 1 | 2 | 3 | 2 | 4 | 4 | NaN | 1 | 0.0625 | 0 | | **V2** | 1 | 0 | 1 | 2 | 1 | 3 | 3 | 0.5 | 4 | 0.09090909 | 5.333333 | | **V3** | 2 | 1 | 0 | 1 | 2 | 2 | 2 | 1 | 3 | 0.1 | 2 | | **V4** | 3 | 2 | 1 | 0 | 1 | 1 | 1 | 0.3 | 5 | 0.11111111 | 9.333333 | | **V5** | 2 | 1 | 2 | 1 | 0 | 2 | 2 | 1 | 3 | 0.1 | 2 | | **V6** | 4 | 3 | 2 | 1 | 2 | 0 | 2 | NaN | 1 | 0.07142857 | 0 | | **V7** | 4 | 3 | 2 | 1 | 2 | 2 | 0 | NaN | 1 | 0.07142857 | 0 | |

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