

DBMS – SOLUTIONS TO ASSIGNMENT 1

1. Apply the following things:

```
from check_data_consistency import DataConsistencyChecker

import pandas as pd
Data = pd.read_csv('Data.csv') # Include the path to any dataset
Data.head() # To see headers of the dataset
Data.describe() # To see description about the dataset

DC = DataConsistencyChecker() # The model creation
DC.init_data(Data) # Initialization of data
DC.check_data_quality() # Quality check
```

2. For arbitrary relations, without assumption on keys, tighter bounds are as follows:

- (i) $\min = 0, \max = t_1 * t_2.$
- (ii) $\min = 0, \max = t_1.$
- (iii) $\min = 0, \max = t_1 * t_2.$
- (iv) $\min = 0, \max = t_1.$