CPSC- 531

PROJECT 2 Submitted By:

AMRUTHA PRAKASH VEENA (887457976)

GUNJAN GUPTA (887450815)

KIRTI CHAUDHARI (887450484)

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**Performance Measurement**:

1. From all the variations for writing the queries we observed that, cross join variation returns maximum number of tuples processed compared to other variations.
2. For query 1, for the natural join variation the total number of tuples processed is 7 which is the minimum compared to other variations. Hence Natural join is the best way to write this query.
3. However, for query 5, the select before theta join variation returns minimum number of tuples processed compared to other variations. So this is the best way to write query 5.
4. For query 5, natural join variation returns 90 number of tuples processed. However, we tried to optimize this result by eliminating unwanted attributes and projecting only the required ones. After optimizing, the number of tuples processed are 46.

**Note**: Run program final.py as python3 final.py