

Table 1: Results of GraphRAG performance analysis

| | MDS | | | | | | | | | | EMDS | | | | | | | | | | AS | | | | | | | | | | SL | | | | | | | | | |
|-------|-------|----|----|----|----|--------|----|----|----|----|-------|----|----|----|----|--------|----|----|----|----|-------|----|----|----|----|--------|----|----|----|----|-------|----|----|----|----|--------|---|----|---|---|
| | Local | | | | | Global | | | | | Local | | | | | Global | | | | | Local | | | | | Global | | | | | Local | | | | | Global | | | | |
| Q | B1 | B2 | B3 | B4 | B5 | B1 | B2 | B3 | B4 | B5 | B1 | B2 | B3 | B4 | B5 | B1 | B2 | B3 | B4 | B5 | B1 | B2 | B3 | B4 | B5 | B1 | B2 | B3 | B4 | B5 | B1 | B2 | B3 | B4 | B5 | | | | | |
| 1 | | X | | | | | X | X | X | | | X | | | X | X | X | X | | | X | | | X | X | X | | | X | | | | X | | | X | | | | |
| 2 | | X | | X | | | X | X | | X | | X | X | | X | X | X | X | | | X | X | | X | X | X | X | | X | X | | | X | X | | X | | | | |
| 3 | | X | | X | | | X | X | | | | X | | | X | X | | | | | X | X | X | | X | X | X | X | | X | X | X | | | X | | | | | |
| 4 | | X | | | | X | | | | | | X | | X | | X | | | | | X | | X | | | | X | X | | | X | X | | | | | | | | |
| 5 | | X | | | X | | X | X | | | | X | | | X | X | X | X | | | X | X | | | X | X | | X | | X | X | | | X | X | | X | | | |
| 6 | | X | | | | | X | X | X | X | | X | | | X | | | | | | X | X | | | X | X | X | X | | X | X | | | X | X | | X | | | |
| 7 | | | X | | X | | | X | X | X | | | X | | X | | | X | X | X | | | X | | X | X | X | | | X | X | X | | | | X | X | X | | |
| 8 | | X | | | | | X | | X | X | | X | | X | X | | | | | | X | | X | | X | X | | | X | | X | X | | | | X | X | | | |
| 9 | | X | | | | | X | | | | | X | | | X | | | | | | X | | X | | | | X | | | X | | | | | | | | | | |
| 10 | | | X | | X | | | X | | | | | X | | | | | | | | X | X | | | X | X | | | | | | | | X | | | X | X | | |
| 11 | | | | | X | | | | | | | | X | | | | | | | | | | X | | | | X | | | | | | | X | | | | | | |
| 12 | X | | | | | | X | X | X | X | | X | | X | X | X | | | | | X | | X | | | X | X | | | X | | | X | X | | | | | | |
| 13 | X | | X | | | | X | X | X | | X | X | X | | | X | X | X | | | X | X | X | X | | | X | X | X | | | X | | | X | X | | | | |
| 14 | | X | X | X | | | X | X | X | X | | X | | X | | X | X | X | | | X | | X | X | X | X | | | X | X | X | | | X | X | X | | | | |
| 15 | | X | X | X | | | X | X | X | | X | X | X | | | X | X | X | X | | X | | X | X | X | X | | | X | | X | X | | | X | X | X | | | |
| TOTAL | 2 | 10 | 5 | 4 | 4 | 1 | 11 | 11 | 8 | 6 | 0 | 12 | 5 | 5 | 6 | 0 | 12 | 11 | 8 | 5 | 0 | 13 | 7 | 6 | 5 | 0 | 12 | 12 | 9 | 9 | 0 | 12 | 8 | 7 | 7 | 0 | 9 | 11 | 6 | 6 |