| **System** | | | | |
| --- | --- | --- | --- | --- |
|  | D2R (N=26) | OTM (N=26) | RTF (N=26) | p value |
| **Task 1: Create and viewing data dictionary - The** |  |  |  | 0.01181 |
| **system allows me to accomplish the task well?** |  |  |  |  |
| N | 26 | 26 | 26 |  |
| Mean (SD) | 1.3 (0.5) | 1.5 (0.5) | 0.9 (0.9) |  |
| Median | 1.0 | 2.0 | 1.0 |  |
| Q1, Q3 | 1.0, 2.0 | 1.0, 2.0 | 1.0, 1.0 |  |
| Range | (1.0-2.0) | (1.0-2.0) | (-1.0-2.0) |  |
|  |  |  |  |  |
| **Task 1: Create and viewing data dictionary - The** |  |  |  | 0.01401 |
| **system enables me to accomplish the task well -** |  |  |  |  |
| **according to my perceived understanding and** |  |  |  |  |
| **expectation of the goal?** |  |  |  |  |
| N | 26 | 26 | 26 |  |
| Mean (SD) | 0.8 (0.9) | 1.4 (0.7) | 0.7 (1.0) |  |
| Median | 1.0 | 1.5 | 1.0 |  |
| Q1, Q3 | 0.0, 1.0 | 1.0, 2.0 | 0.0, 1.0 |  |
| Range | (-1.0-2.0) | (0.0-2.0) | (-1.0-2.0) |  |
|  |  |  |  |  |
| **Time to complete task 1 (seconds)** |  |  |  | <0.00011 |
| N | 26 | 26 | 26 |  |
| Mean (SD) | 244.4 (75.7) | 109.2 (52.4) | 142.0 (60.3) |  |
| Median | 214.5 | 95.5 | 122.5 |  |
| Q1, Q3 | 185.0, 272.0 | 79.0, 126.0 | 102.0, 155.0 |  |
| Range | (160.0-405.0) | (50.0-303.0) | (88.0-346.0) |  |
|  |  |  |  |  |
| **Task 2: Updating existing data dictionary - The** |  |  |  | 0.03551 |
| **system allows me to accomplish the task well?** |  |  |  |  |
| N | 26 | 26 | 26 |  |
| Mean (SD) | 1.5 (0.5) | 1.5 (0.7) | 0.8 (1.1) |  |
| Median | 1.5 | 2.0 | 1.0 |  |
| Q1, Q3 | 1.0, 2.0 | 1.0, 2.0 | 0.0, 2.0 |  |
| Range | (1.0-2.0) | (-1.0-2.0) | (-2.0-2.0) |  |
|  |  |  |  |  |
| **Task 2: Updating existing data dictionary - The** |  |  |  | 0.01651 |
| **system enables me to accomplish the task well -** |  |  |  |  |
| **according to my perceived understanding and** |  |  |  |  |
| **expectation of the goal?** |  |  |  |  |
| N | 26 | 26 | 26 |  |
| Mean (SD) | 1.2 (0.8) | 1.4 (0.8) | 0.6 (1.1) |  |
| Median | 1.0 | 2.0 | 1.0 |  |
| Q1, Q3 | 1.0, 2.0 | 1.0, 2.0 | 0.0, 1.0 |  |
| Range | (-1.0-2.0) | (-1.0-2.0) | (-2.0-2.0) |  |
|  |  |  |  |  |
| **Time to complete task 2 (seconds)** |  |  |  | <0.00011 |
| N | 26 | 26 | 26 |  |
| Mean (SD) | 102.5 (21.9) | 66.5 (20.4) | 82.8 (35.0) |  |
| Median | 104.0 | 60.0 | 70.5 |  |
| Q1, Q3 | 81.0, 121.0 | 54.0, 70.0 | 61.0, 102.0 |  |
| Range | (64.0-146.0) | (44.0-122.0) | (45.0-206.0) |  |
|  |  |  |  |  |
| **Task 3: Searching and binding controlled** |  |  |  | <0.00011 |
| **terminology terms - The system allows me to** |  |  |  |  |
| **accomplish the task well?** |  |  |  |  |
| N | 26 | 26 | 26 |  |
| Mean (SD) | 1.2 (0.7) | -0.1 (1.0) | -1.1 (0.9) |  |
| Median | 1.0 | 0.0 | -1.0 |  |
| Q1, Q3 | 1.0, 2.0 | -1.0, 1.0 | -2.0, -1.0 |  |
| Range | (0.0-2.0) | (-2.0-2.0) | (-2.0-1.0) |  |
|  |  |  |  |  |
| **Task 3: Searching and binding controlled** |  |  |  | <0.00011 |
| **terminology terms - The system enables me to** |  |  |  |  |
| **accomplish the task well - according to my** |  |  |  |  |
| **perceived understanding and expectation of the** |  |  |  |  |
| **goal?** |  |  |  |  |
| N | 26 | 26 | 26 |  |
| Mean (SD) | 1.1 (0.8) | -0.2 (1.1) | -1.3 (0.8) |  |
| Median | 1.0 | 0.0 | -1.0 |  |
| Q1, Q3 | 1.0, 2.0 | -1.0, 1.0 | -2.0, -1.0 |  |
| Range | (-2.0-2.0) | (-2.0-2.0) | (-2.0-1.0) |  |
|  |  |  |  |  |
| **Time to complete task 3 (seconds)** |  |  |  | 0.04281 |
| N | 26 | 26 | 26 |  |
| Mean (SD) | 187.7 (101.2) | 210.6 (100.3) | 262.7 (125.1) |  |
| Median | 166.0 | 192.5 | 259.5 |  |
| Q1, Q3 | 120.0, 249.0 | 131.0, 249.0 | 181.0, 320.0 |  |
| Range | (60.0-536.0) | (84.0-504.0) | (64.0-600.0) |  |
|  |  |  |  |  |
| **Favorite System?** |  |  |  | <0.00012 |
| No | 9 (34.6%) | 17 (65.4%) | 26 (100.0%) |  |
| Yes | 17 (65.4%) | 9 (34.6%) | 0 (0.0%) |  |
|  |  |  |  |  |
| **Survey Sum** |  |  |  | <0.00011 |
| N | 26 | 26 | 26 |  |
| Mean (SD) | 5.4 (2.6) | 3.8 (2.2) | 1.1 (1.8) |  |
| Median | 5.5 | 3.5 | 0.0 |  |
| Q1, Q3 | 3.0, 7.0 | 2.0, 5.0 | 0.0, 1.0 |  |
| Range | (1.0-9.0) | (0.0-8.0) | (0.0-8.0) |  |
|  |  |  |  |  |
| **Survey Sum - Weighted** |  |  |  | <0.00011 |
| N | 26 | 26 | 26 |  |
| Mean (SD) | 5.8 (2.7) | 4.1 (2.4) | 1.1 (1.9) |  |
| Median | 6.1 | 3.6 | 0.0 |  |
| Q1, Q3 | 3.0, 7.5 | 2.0, 5.5 | 0.0, 1.0 |  |
| Range | (1.3-9.5) | (0.0-8.5) | (0.0-8.3) |  |
| 1Kruskal Wallis    2Chi-Square | | | | |