**Remember to Add (Marks Distribution Graph [the scattered one] for each Quiz.**

**Remember to Add (Marks Distribution Graph [the scattered one] for each Question at each Quiz.**

**Moodle Item Analysis is Not Enough. Further Analysis is Required, and Important.**

**Remember to mention that we use Moodle in the e-Learning activities. The initiative to this paper is that, recently we thought about relying heavily on e-Learning, so we thought about examining it before utilizing it.**

**Behavior Analysis for Each Group (a good title for the analysis of each group).**

Table 1: Different Students Groups in this Study

|  |  |
| --- | --- |
| **Group 0** | Students started but did not complete the assessment. |
| **Group 1** | Students conducted the assessment in duration between 0 and 10 min. |
| **Group 2** | Students conducted the assessment in duration between 10 and 20 min. |
| **Group 3** | Students conducted the assessment in duration between 20 and 30 min. |
| **Group 4** | Students conducted the assessment in duration between 30 and 40 min. |
| **Group 5** | Students conducted the assessment in duration between 40 and 50 min. |
| **Group 6** | Students conducted the assessment in duration between 50 and 60 min. |

Table 2: Detailed Statistics for Each Quiz

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 1st / 2008 | 2nd / 2008 | 1st / 2009 | 1st / 2010 | 2nd / 2010 | 3rd / 2010 | 4th / 2010 | 5th / 2010 | 6th / 2010 |
| Total Std. | 183 | 162 | 91 | 169 | 170 | 166 | 160 |  |  |
| Group 0 | 4 | 9 | 0 | 31 | 21 |  |  |  |  |
| Group 1 | 49 | 46 | 32 |  | 22 |  |  |  |  |
| Group 2 | 63 | 52 | 22 |  | 33 |  |  |  |  |
| Group 3 | 28 | 29 | 20 |  | 37 |  |  |  |  |
| Group 4 | 11 | 11 | 4 |  | 26 |  |  |  |  |
| Group 5 | 14 | 5 | 7 |  | 20 |  |  |  |  |
| Group 6 | 14 | 10 | 6 |  | 11 |  |  |  |  |
| Gr0 Tm Avg | -- | -- | -- |  |  |  |  |  |  |
| Gr1 Tm Avg | 6.4 m | 4.6 | 5.2 m |  |  |  |  |  |  |
| Gr2 Tm Avg | 14 m | 14.5 | 15.5 m |  |  |  |  |  |  |
| Gr3 Tm Avg | 24.7 m | 25 | 24.8 m |  |  |  |  |  |  |
| Gr4 Tm Avg | 34.7 m | 34 | 36.7 m |  |  |  |  |  |  |
| Gr5 Tm Avg | 43.3 m | 44 | 44.5 m |  |  |  |  |  |  |
| Gr6 Tm Avg | 46.7 m | 55.6 | 57 m |  |  |  |  |  |  |
| Gr1 Mrk Avg | 34 / 50 | 31.5 / 50 | 27.6 |  |  |  |  |  |  |
| Gr2 Mrk Avg | 35.5 / 50 | 43.3 / 50 | 31.5 |  |  |  |  |  |  |
| Gr3 Mrk Avg | 33.8 / 50 | 43.1 / 50 | 31.6 |  |  |  |  |  |  |
| Gr4 Mrk Avg | 29 / 50 | 43 / 50 | 33.7 |  |  |  |  |  |  |
| Gr5 Mrk Avg | 32.5 / 50 | 34.4 / 50 | 30.8 |  |  |  |  |  |  |
| Gr6 Mrk Avg | 33.2 / 50 | 41 / 50 | 36 |  |  |  |  |  |  |
| Easy Qs | 5 / 50 | 4 / 50 | 5 / 50 | 5 / 50 | 3 / 50 |  |  |  |  |
| Med. Qs | 35 / 50 | 44 / 50 | 35 / 50 | 35 / 50 | 39 / 50 |  |  |  |  |
| Hard Qs | 10 / 50 | 2 / 50 | 10 / 50 | 10 / 50 | 8 / 50 |  |  |  |  |
| Gr1 Easy Qs Correct | 145 / 245 | 128 | 97 / 160 |  |  |  |  |  |  |
| Gr1 Med Qs Correct | 1224 / 1715 | 1259 | 660 / 1120 |  |  |  |  |  |  |
| Gr1 Hard Qs Correct | 307 / 409 | 64 | 127 / 320 |  |  |  |  |  |  |
| Gr1 Score >0 & <=10 | 0 / 49 | 1 / 46 | 0 / 32 |  |  |  |  |  |  |
| Gr1 Score >10 & <=20 | 0 / 49 | 1 / 46 | 1 / 32 |  |  |  |  |  |  |
| Gr1 Score >20 & <=30 | 18 / 49 | 28 / 46 | 28 / 32 |  |  |  |  |  |  |
| Gr1 Score >30 & <=40 | 22 / 49 | 3 / 46 | 3 / 32 |  |  |  |  |  |  |
| Gr1 Score >40 & <=50 | 9 / 49 | 13 / 46 | 0 /32 |  |  |  |  |  |  |
| Gr2 Easy Qs Correct | 169 / 315 | 185 | 69 / 110 |  |  |  |  |  |  |
| Gr2 Med Qs Correct | 1647 / 2205 | 1983 | 492 / 770 |  |  |  |  |  |  |
| Gr2 Hard Qs Correct | 428 / 630 | 87 | 124 / 220 |  |  |  |  |  |  |
| Gr2 Score >0 & <=10 | 0 / 63 | 1 | 0 |  |  |  |  |  |  |
| Gr2 Score >10 & <=20 | 0 / 63 | 0 | 0 |  |  |  |  |  |  |
| Gr2 Score >20 & <=30 | 12 / 63 | 8 | 14 |  |  |  |  |  |  |
| Gr2 Score >30 & <=40 | 38 / 63 | 3 | 4 |  |  |  |  |  |  |
| Gr2 Score >40 & <=50 | 13 / 63 | 40 | 4 |  |  |  |  |  |  |
| Gr3 Easy Qs Correct | 63 / 140 | 98 | 66 / 100 |  |  |  |  |  |  |
| Gr3 Med Qs Correct | 701 / 980 | 1104 | 461 / 700 |  |  |  |  |  |  |
| Gr3 Hard Qs Correct | 183 / 280 | 48 | 98 / 200 |  |  |  |  |  |  |
| Gr3 Score >0 & <=10 | 0 / 28 | 0 | 0 |  |  |  |  |  |  |
| Gr3 Score >10 & <=20 | 0 / 28 | 0 | 0 |  |  |  |  |  |  |
| Gr3 Score >20 & <=30 | 9 / 28 | 4 | 13 |  |  |  |  |  |  |
| Gr3 Score >30 & <=40 | 16 / 28 | 5 | 4 |  |  |  |  |  |  |
| Gr3 Score >40 & <=50 | 3 / 28 | 20 | 3 |  |  |  |  |  |  |
| Gr4 Easy Qs Correct | 23 / 55 | 38 | 14 / 20 |  |  |  |  |  |  |
| Gr4 Med Qs Correct | 259 / 385 | 416 | 97 / 140 |  |  |  |  |  |  |
| Gr4 Hard Qs Correct | 59 / 110 | 19 | 20 / 40 |  |  |  |  |  |  |
| Gr4 Score >0 & <=10 | 0 / 11 | 0 | 0 |  |  |  |  |  |  |
| Gr4 Score >10 & <=20 | 1 / 11 | 0 | 0 |  |  |  |  |  |  |
| Gr4 Score >20 & <=30 | 4 / 11 | 1 | 2 |  |  |  |  |  |  |
| Gr4 Score >30 & <=40 | 6 / 11 | 3 | 1 |  |  |  |  |  |  |
| Gr4 Score >40 & <=50 | 0 / 11 | 7 | 1 |  |  |  |  |  |  |
| Gr5 Easy Qs Correct | 25 / 70 | 13 | 20 / 35 |  |  |  |  |  |  |
| Gr5 Med Qs Correct | 342 / 490 | 154 | 161 / 245 |  |  |  |  |  |  |
| Gr5 Hard Qs Correct | 89 / 140 | 5 | 33 / 70 |  |  |  |  |  |  |
| Gr5 Score >0 & <=10 | 0 / 14 | 0 | 0 |  |  |  |  |  |  |
| Gr5 Score >10 & <=20 | 0 / 14 | 0 | 0 |  |  |  |  |  |  |
| Gr5 Score >20 & <=30 | 5 / 14 | 2 | 3 |  |  |  |  |  |  |
| Gr5 Score >30 & <=40 | 9 / 14 | 2 | 4 |  |  |  |  |  |  |
| Gr5 Score >40 & <=50 | 0 / 14 | 1 | 0 |  |  |  |  |  |  |
| Gr6 Easy Qs Correct | 34 / 70 | 35 | 22 / 30 |  |  |  |  |  |  |
| Gr6 Med Qs Correct | 339 / 490 | 360 | 155 / 210 |  |  |  |  |  |  |
| Gr6 Hard Qs Correct | 93 / 140 | 15 | 38 / 60 |  |  |  |  |  |  |
| Gr6 Score >0 & <=10 | 0 / 14 | 0 | 0 |  |  |  |  |  |  |
| Gr6 Score >10 & <=20 | 0 / 14 | 0 | 0 |  |  |  |  |  |  |
| Gr6 Score >20 & <=30 | 5 / 14 | 3 | 3 |  |  |  |  |  |  |
| Gr6 Score >30 & <=40 | 7 / 14 | 1 | 1 |  |  |  |  |  |  |
| Gr6 Score >40 & <=50 | 2 / 14 | 6 | 2 |  |  |  |  |  |  |
| Types of Qs | T/F | T/F | T/F | T/F | Multi Choi |  |  |  |  |

What does this paper present?

Future work:

1 – Evaluate the importance of timing quiz. It might be important to give higher ranks for students who submit exam earlier than others. It might be not. It is noticeable from the results that ranks don’t get higher when extra time is consumed. That might means, quiz is under control.