Formulation

Sub-intent: Obtain and prepare data for analysis
Write email to “keeper of the log” to request queries [13:25]
Keeper write and perform queries [17:32]
Keeper replies to email with results [13:29]
Look at results [17:25]
Are results what I want? [17:50]
Clarify, refine query [17:25]
Check and verify that data is clean and has no errors [18:00]

Prepare Data

Sub-intent: Obtain and prepare data for analysis

Visualize Data

Sub-Intent: Visualize data to analyze data [18:55]
User minitab or R or get students to write [21:20]
Aggregate/filter data by categories/concepts [19:10]
Look for patterns in students’ behaviour [21:58]
Determine theories based on these behaviors
Students need to analyze [17:45]

End

Do I understand graphs?
Yes
Students get data and generate graphs/reports [28:00]

No
Students get back to him with graphs

BREAKDOWN: This process is time consuming – takes a few days [17:30]

BREAKDOWN: This is difficult to do in EXCEL. [18:59]

BREAKDOWN: This may be done quite a few times. [28:30] [30:43]

BREAKDOWN: Cleaning data is time-consuming [26:22]
Course/Tutor Developer/Teacher

Intent: To look at students' progress thru the course → Get into the interface → See how many times a student took a quiz [02:20] → See where the student is at in the course (by module or quiz) [03:15][04:15] → See where the student is at in the course (by module or quiz) [02:40][04:40] → Collect other features of behavior and make predictions [03:58]

Intent: Discover something about students from their performance → Look at grade sheet of students [03:30] → Interpret time student took for each quiz [03:37] → Export to excel spreadsheet [03:42] → Collect other features of behavior and make predictions [03:58]

Intent: To add a course into the system → Write XML file [06:30] → OLI system processes this input

Student/Tutor-user

Intent: To learn → Read?
- Read stuffs
  - Take self-assessments
  - Take self-assessments
  - Take quizzes [01:43]
  - Look at score
  - Study parts that didn’t do well on → Take quizzes again