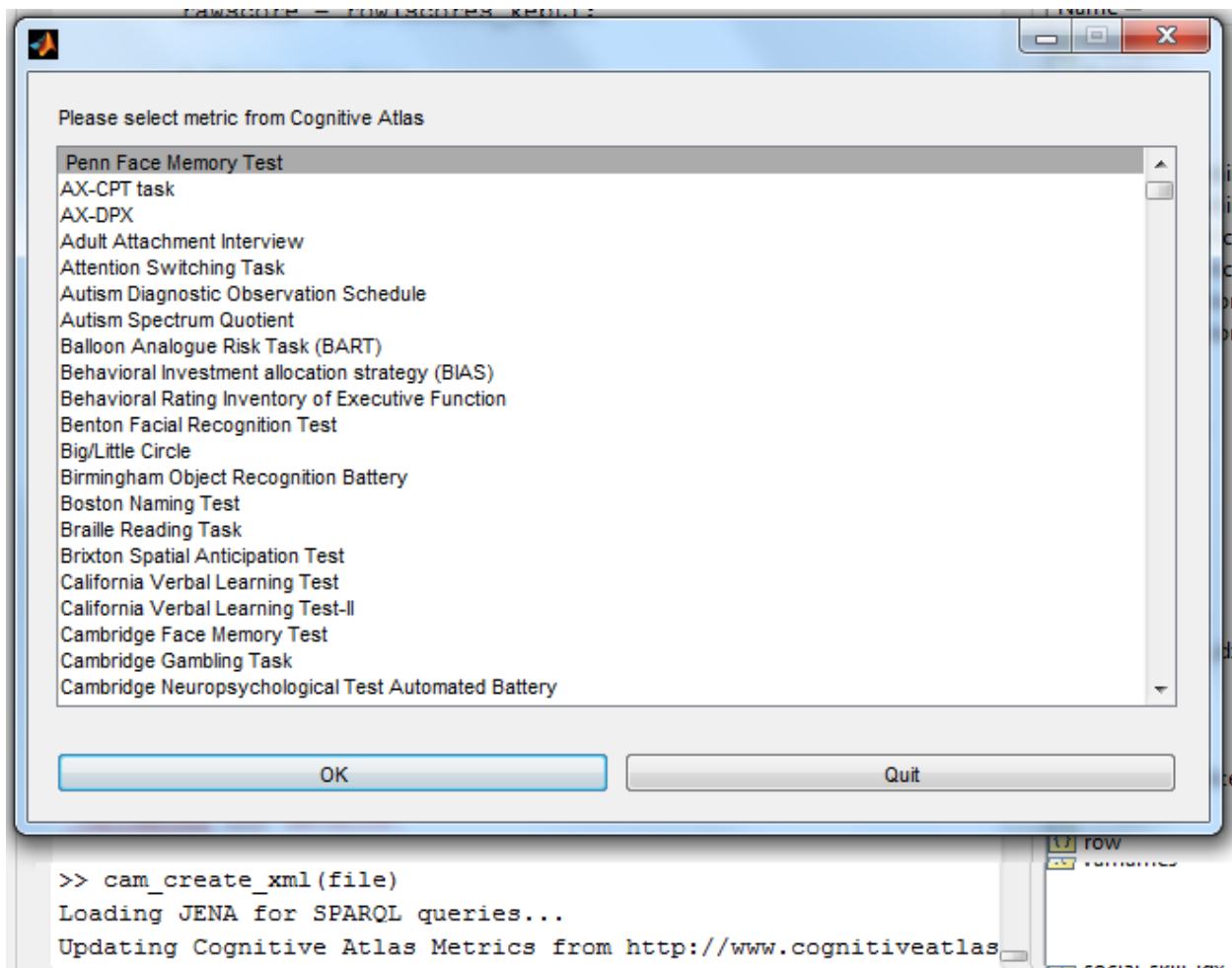
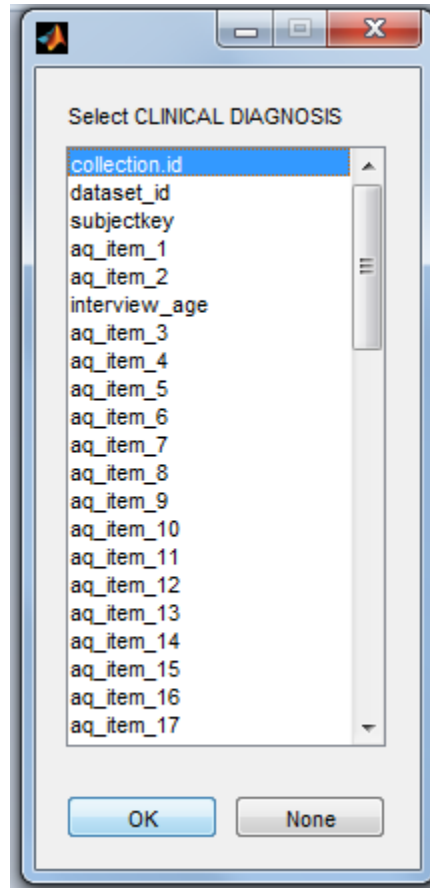
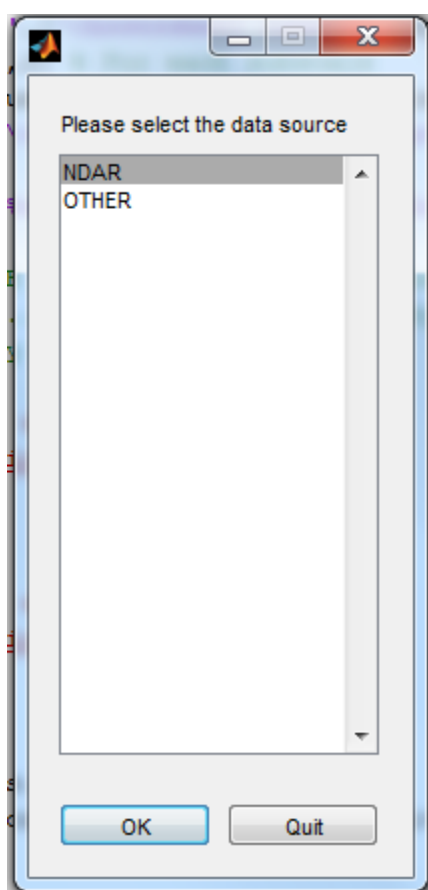


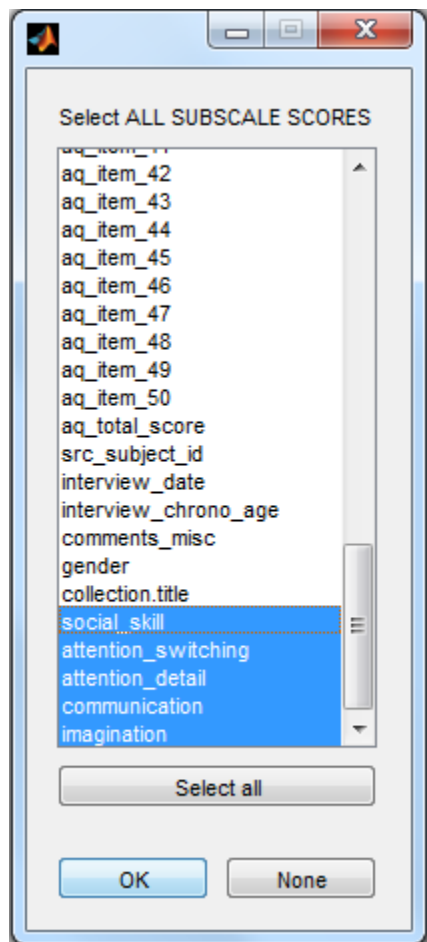
1. The user selects a raw data file
2. The Cognitive Atlas is queried for an updated list of metrics:



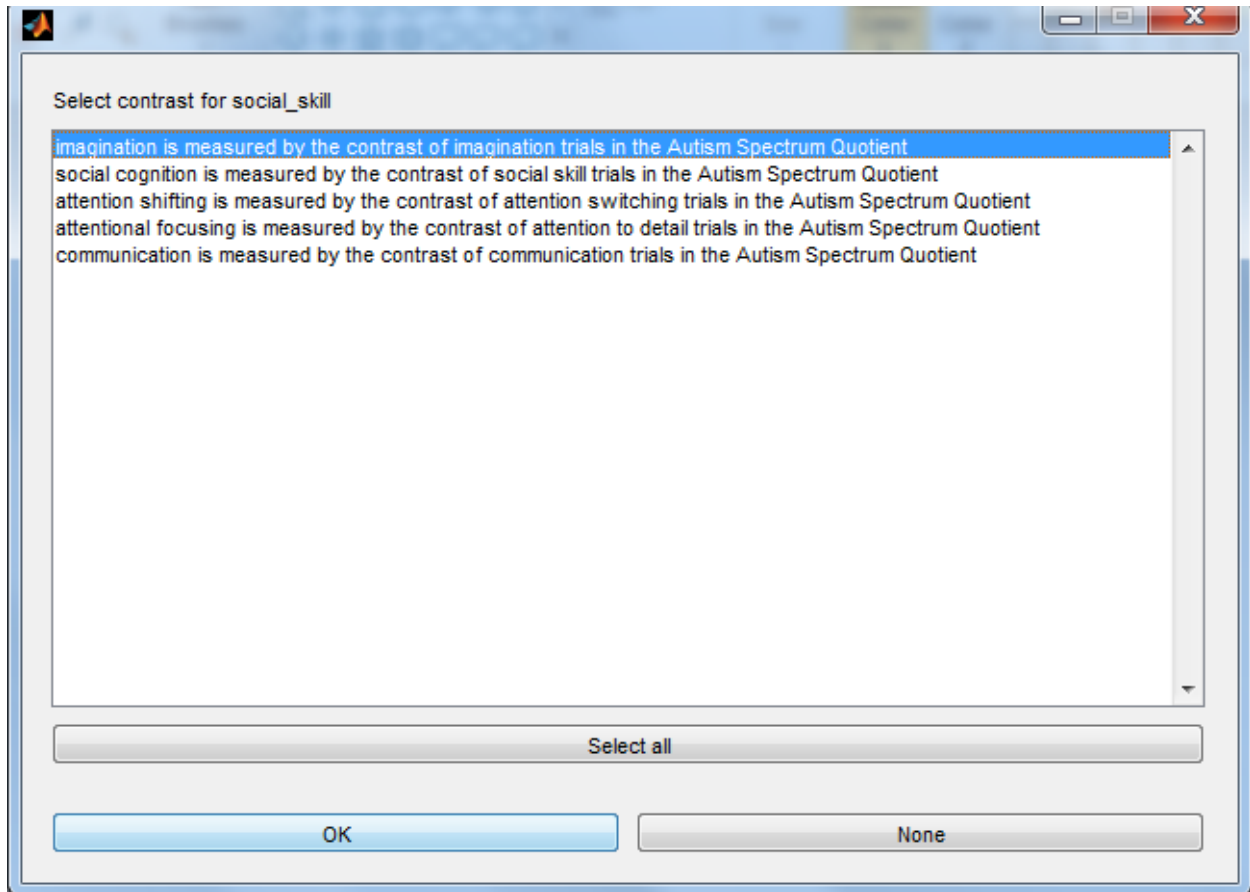
3. Asks user to specify fields of relevant information for structuring into CAM xml file (note: if NDAR data is being used, user can specify this and this step is done automatically):



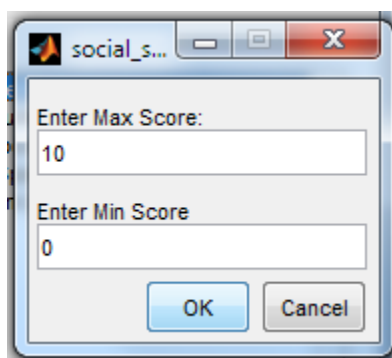
4. For selected metric – queries Cognitive Atlas to get list of contrasts, and user first chooses columns from raw data that are subscale final scores:



And then is asked to match each subscale to a specific contrast in the atlas.



The user currently has to specify min and max values for each subscale, since this isn't represented in the atlas:



5. For each person in data file, writes a CAM xml file with the information encoded.

```
<?xml version="1.0" encoding="UTF-8"?>
<CAM-ROOT>
  <AssessmentMarkup xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" camVersion="1.0" codingSchemeDesignator="CognitiveAtlas" codingSchemeURL="http://www.cognitiveatlas.org/rdf/id" dateTime="07/22/13"
    xsi:schemaLocation="http://www.cognitiveatlas.org/rdf/id http://www.cognitiveatlas.org/rdf/id">
    <Person collection_id="1356" dataset_id="0828" subjectkey="NDARXL331VF0" subject_id_src="870328DVK" interview_date="8/17/2011" interview_age="293" gender="F" full_phenotype="" clinical_diagnosis="" />
    <Assessment name="Autism Spectrum Quotient" version="" cogatlasID="trm_51d6fe3f3942f">
      <Concept concept_uid="trm_4a3fd79d8b13d" concept_description="imagination is measured by the contrast of imagination trials in the Autism Spectrum Quotient" raw_score="7" max_score="11" min_score="0" norm_score="0.7">
      </Concept>
      <Concept concept_uid="trm_4a3fd79d8b5ef" concept_description="social cognition is measured by the contrast of social skill trials in the Autism Spectrum Quotient" raw_score="9" max_score="11" min_score="0" norm_score="0.9">
      </Concept>
      <Concept concept_uid="trm_4a3fd79d8b9de" concept_description="attention shifting is measured by the contrast of attention switching trials in the Autism Spectrum Quotient" raw_score="8" max_score="11" min_score="0" norm_score="0.8">
      </Concept>
      <Concept concept_uid="trm_4f4511e519b53" concept_description="attentional focusing is measured by the contrast of attention to detail trials in the Autism Spectrum Quotient" raw_score="6" max_score="11" min_score="0" norm_score="0.6">
      </Concept>
      <Concept concept_uid="trm_4a3fd79d8b5fb" concept_description="communication is measured by the contrast of communication trials in the Autism Spectrum Quotient" raw_score="3" max_score="11" min_score="0" norm_score="0.3">
      </Concept>
    </Assessment>
  </AssessmentMarkup>
</CAM-ROOT>
```

These files will go into an xml database to be queried to drive cohort selection based on normalized behavioral data.

- NDARXN715WHE_Autism_Spectrum_Quotient_trm_51d6fe3f3942f
- NDARXL331VF0_Autism_Spectrum_Quotient_trm_51d6fe3f3942f
- NDARXL040FBU_Autism_Spectrum_Quotient_trm_51d6fe3f3942f
- NDARWF838ETX_Autism_Spectrum_Quotient_trm_51d6fe3f3942f
- NDARTV583FRB_Autism_Spectrum_Quotient_trm_51d6fe3f3942f
- NDARTH683HP8_Autism_Spectrum_Quotient_trm_51d6fe3f3942f
- NDARTD553GD2_Autism_Spectrum_Quotient_trm_51d6fe3f3942f
- NDARTC240URW_Autism_Spectrum_Quotient_trm_51d6fe3f3942f
- NDARRH642MDD_Autism_Spectrum_Quotient_trm_51d6fe3f3942f
- NDARNP287NJY_Autism_Spectrum_Quotient_trm_51d6fe3f3942f
- NDARNH109VJG_Autism_Spectrum_Quotient_trm_51d6fe3f3942f
- NDARNB842FK8_Autism_Spectrum_Quotient_trm_51d6fe3f3942f
- NDARJC961PYY_Autism_Spectrum_Quotient_trm_51d6fe3f3942f
- NDARJA608DFK_Autism_Spectrum_Quotient_trm_51d6fe3f3942f
- NDARJA086YZB_Autism_Spectrum_Quotient_trm_51d6fe3f3942f
- NDARGB358DTR_Autism_Spectrum_Quotient_trm_51d6fe3f3942f
- NDARFH177PHJ_Autism_Spectrum_Quotient_trm_51d6fe3f3942f
- NDARFG277UY4_Autism_Spectrum_Quotient_trm_51d6fe3f3942f
- NDAREB559ZF4_Autism_Spectrum_Quotient_trm_51d6fe3f3942f
- NDARCP548CUA_Autism_Spectrum_Quotient_trm_51d6fe3f3942f
- NDARBW812NR8_Autism_Spectrum_Quotient_trm_51d6fe3f3942f
- NDARBU262DK6_Autism_Spectrum_Quotient_trm_51d6fe3f3942f
- NDARBC472ND6_Autism_Spectrum_Quotient_trm_51d6fe3f3942f
- NDARAK333GZA_Autism_Spectrum_Quotient_trm_51d6fe3f3942f