**Data flow Diagram #1: central database**

Processes:

1. SUBJECT DE-IDENTIFICATION.
2. CONDUCT EXPERIMENT.
3. UPDATE SUBJECT RECORDS.

Entities:

* SUBJECTS.
* LAB.

Data Stores:

* CENTRAL DATABASE.

Data flow:

* SUBJECT’s personal data is stored in the CENTRAL DATA BASE.
* The SUBJECT DE-IDENTIFICATION SYSTEM uses identified data queried from the CENTRAL DATABASE to create de-identified subject code for subject data.
  + The SUBJECT DE-IDENTIFICATION SYSTEM sends the de-identified subject code and corresponding data to the central database.
* The LAB queries the CENTRAL DATABASE for de-identified subject code and data.\
  + The CENTRAL DATABASE sends the LAB the de-identified subject code and data.
* The LAB sends experiment parameters and de-identified subject data to CONDUCT EXPERIMENTS. In return, CONDUCT EXPERIMENTS sends experiment results back to LAB.
* The experiment results returned to LAB are then passed on to UPDATE SUBJECT RECORDS.
  + UPDATE SUBJECT RECORDS stores the updated subject records in the CENTRAL DATABASE.
* After a lab has conducted an experiment, the speech data is stored in the CENTRAL DATABASE.

