**Data Analyst Evaluation Task**

The MIMIC dataset (in its demo version) provides de-identified clinical data for 100 patients. As part of this exercise, you will develop a script to transform the relevant MIMIC vital signs data into the CLIF Vitals format. Once the data is transformed, you will use the CLIF Lighthouse tool to evaluate data quality and verify correct preprocessing. Please be prepared to share and discuss your results, along with your code documentation, during the interview.

**Instructions**

1. **Data Transformation**
   * Use the file ‘chartevents.csv‘ from the MIMIC dataset to transform the relevant data in that file into the **CLIF Vitals format** as specified in vitals table in the [CLIF data dictionary](https://clif-icu.com/data-dictionary/data-dictionary-2.0.0). The ‘mappings.csv’ will help in matching itemid to acceptable CLIF vitals categories.
   * Ensure that the resulting dataset follows all formatting requirements (naming conventions, data types, units, etc.).
2. **Code Documentation**
   * Store your transformation script and any supporting modules on GitHub.
3. **Data Quality Evaluation**
   * Use the [CLIF Lighthouse](https://github.com/Common-Longitudinal-ICU-data-Format/CLIF-Lighthouse) application to evaluate the completeness, accuracy, and consistency of your transformed dataset.
   * Compile the results of the CLIF Lighthouse screening and be prepared to present and interpret these findings during the interview.

**What to Present at the Interview**

* A brief overview of your transformation approach and any key challenges.
* A summary of your CLIF Lighthouse evaluation.
* A strategy for how you would approach other similar data tables.