

```

import os
import pandas as pd
from predict import model
import sqlite3
import copy

lag = 9
UPDATE_SQL_PATH = "python_scripts/DB/sql/update.sql"
DELETE_SQL_PATH = "python_scripts/DB/sql/delete.sql"
def Run(participant_id, input_, db_path, model_path, modes):
    output_ = copy.deepcopy(input_)
    for mode in modes:
        #print(mode)
        predictor = model.predict_model(os.path.join(model_path, mode),
mode)

        res = predictor.predict(input_.loc[:, "Timestamp":])
        output_[mode] = res[mode]

    output_["Sleep"] = 1 - output_["Sleep"]
    conn = sqlite3.connect(db_path)
    cur = conn.cursor()
    output_ = output_.iloc[lag:]
    ## Query
    ## delete master
    DELETE_SQL = open(DELETE_SQL_PATH).read().format("master",
participant_id, "Timestamp", output_["Timestamp"].min(),
output_["Timestamp"].max())
    print(DELETE_SQL)
    cur.executescript(DELETE_SQL)
    ## delete alert
    DELETE_SQL = open(DELETE_SQL_PATH).read().format("alert",
participant_id, "date", output_["Timestamp"].min(),
output_["Timestamp"].max())
    print(DELETE_SQL)
    cur.executescript(DELETE_SQL)
    save_data = output_.drop("Temp", axis=1)
    save_data = save_data.drop("id", axis=1)
    save_data.to_sql("master", conn, if_exists="append", index=False)
    return output_

```