22/07/2025, 23:46 database.py

database.py

```
1
   from pymongo import MongoClient
   import pandas as pd
2
   from config import MONGO URI
3
4
   # Initialize MongoDB client and database
5
   client = MongoClient(MONGO URI)
6
   db = client["class mgmt"]
7
   students collection = db["students"]
8
9
   def load_students_from_csv(csv path="data/student.csv"):
10
        df = pd.read csv(csv path)
11
        records = df.to dict(orient="records")
12
        students collection.insert many(records)
13
        return len(records)
14
15
16
   def fetch_all_students():
        return list(students collection.find({}, {" id": 0}))
17
18
   def find_students_by_field(field, value):
19
        query = {field: {"$regex": value, "$options": "i"}}
20
        return list(students collection.find(query, {" id": 0}))
21
22
   def get_birthdays_by_month(month_str):
23
        return list(students collection.find({"DOB": {"$regex": f"-{month_str}-
24
   ", "$options": "i"}}, {"_id": 0}))
25
26
```