## fee\_patch\_tool.py

```
from pymongo import MongoClient
1
   from config import MONGO URI
2
3
   from fee calculator import generate fee record, SESSION MONTHS
4
   client = MongoClient(MONGO URI)
5
   db = client["class mgmt"]
6
   students = db["students"]
7
   fee records = db["fee records"]
8
9
   def patch_fee_ledgers():
10
       11
       updated students = []
12
13
       for student in students.find({}, {" id": 0}):
14
           sid = student["Student ID"]
15
           fatherless = student.get("Fatherless", False)
16
           existing months = {r["month"] for r in
17
   fee_records.find({"student_id": sid}))
18
           missing months = [m for m in SESSION MONTHS if m not in
19
   existing months]
           if missing months:
20
               print(f" \ Student ID {sid} is missing months:
21
   {missing months}")
               full ledger = generate fee record(sid, fatherless)
22
               patch docs = [r for r in full ledger if r["month"] in
23
   missing months]
24
               fee records.insert many(patch docs)
               updated students.append(sid)
25
26
27
       if updated students:
           print(f"\n ✓ Patched fee records for {len(updated students)}
28
   students.")
       else:
29
           print(" ✓ All students have complete fee ledgers.")
30
31
   if name == " main ":
32
       patch fee ledgers()
33
34
```