Sohal Patel

FIGURE P1.1 The File Structure for Problems 1-4

1. There are seven records and five fields in this database.
2. The city is in the MANAGER\_ADDRESS field would be hard to search for because you can’t clearly search for an exact city name without having the full address or it would take a long time to search for the string of the city name. To solve this, I would separate the address with the address with their own fields. Like street address, City, State and Zip code.
3. Just like in question 2 there should be a separate of the First name and Last name, so they can be easily be able to be produce quickly.
4. There are many attributes that are repeated within the fields. Which can cause the system to show error message. If you must change the someone name, then you would have to change all the attributes that have the same information, so they don’t overlap with the database when you are producing results for the company.
5. The record contains in JOB\_CHG\_HOUR values for the equivalent CT job code, along these lines delineating the impact of changes in the hourly charge rate after some time. The file structure seems to speak to exchanges that charge venture hours to each extend. However, the structure of this document makes it hard to maintain a strategic distance from update inconsistencies and it is unimaginable to determine whether a charge change is precisely reflected in each record. In a perfect world, a change in the hourly charge rate would be made in just one spot and this change would then be passed on to the exchange dependent on the hourly charge. Such an auxiliary change would ensure the authentic exactness of the exchanges.

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| STU\_ID | STU\_NAME | CLASS\_CODE | CLASS\_NAME | CLASS\_CREDHRS | INSTR\_NAME | CLASS\_DAYS | CLASS\_TIMES | ROOM |
| 1 | Sohal Patel | 200 | CIS | 3 | Dr. Wright | TuTh | 2:30PM–3:45PM | 008 |
| 1 | Sohal Patel | 310 | CIS | 3 | Haleh Karimi | TuTh | 4:00PM-5:15PM | 008 |
| 1 | Sohal Patel | 350 | CIS | 3 | Jozef Zurada | MoWe | 11:00AM-12:15PM | 003 |
| 1 | Sohal  Patel | 401 | MGMT | 3 | Mahesh Gupta | MoWe | 9:30AM-10:45AM | 106 |
| 2 | Gabriel Harper | 200 | CIS | 3 | Dr. Wright | TuTh | 2:30PM–3:45PM | 008 |
| 2 | Gabriel Harper | 310 | CIS | 3 | Haleh Karimi | TuTh | 4:00PM-5:15PM | 008 |
| 2 | Gabriel Harper | 320 | CIS | 3 | R. Barker | TuTh | 9:30AM-10:45AM | 003 |
| 2 | Gabriel Harper | 398 | CIS | 3 | G. Reinhardt | NA | NA | TBA |
| 3 | Emily | 201 | BUS | 1 | Natalie Piontek | Tu | 4:00PM-5:15PM | 202 |
| 3 | Emily | 150 | CIS | 3 | G. Reinhardt | MoWe | 2:00PM-3:15PM | 100 |
| 3 | Emily | 199 | CIS | 3 | Dr. Wright | MoWe | 12:00AM-1:45PM | 008 |
| 3 | Emily | 301 | MKT | 3 | Charles Sharp | We | 4:00PM-7:00PM | 110 |

11.

Students are probably going to recognize the redundancies around the class data since every one of the three schedule the understudy's own timetable in addition to the schedule of the two students will share in any event the database class for all intents and purpose. This effectively prompts discourses of isolating the information into in any event two tables in a database. Notwithstanding, that still leaves the redundancies of repetitive understudy information with each class that they are taking.