

Class Exercise – 1.2

Name: Ashlyn Cooper

Clemson/Assignment ID: PROJ2

Submission: Save this Word document with your answers as a PDF file and upload the PDF file to Canvas.

Use this file structure to answer the questions below

PROJ_NUM	PROJ_NAME	EMP_NUM	EMP_NAME	JOB_CODE	JOB_CHG_HOUR	PROJ_HOURS	EMP_PHONE
1	Hurricane	101	John D. Newson	EE	85.00	13.3	653-234-3245
1	Hurricane	105	David F. Schwann	CT	60.00	16.2	653-234-1123
1	Hurricane	110	Anne R. Ramoras	CT	60.00	14.3	615-233-5568
2	Coast	101	John D. Newson	EE	85.00	19.8	653-234-3254
2	Coast	108	June H. Sattlemeir	EE	85.00	17.5	905-554-7812
3	Satellite	110	Anne R. Ramoras	CT	62.00	11.6	615-233-5568
3	Satellite	105	David F. Schwann	CT	26.00	23.4	653-234-1123
3	Satelite	123	Mary D. Chen	EE	85.00	19.1	615-233-5432
3	Satellite	112	Allecia R. Smith	BE	85.00	20.7	615-678-6879

1. **Identify and discuss the serious data redundancy problems exhibited by the file structure above.**
 - a. There are multiple duplicate listings for the same employee, and for some employees (like 101) the phone number is different across records of the same employee. Some job codes that are duplicated also have different charges. Also, for the Satellite projects, one of the names is misspelled, which could lead to searching issues.
2. **Looking at the EMP_NAME and EMP_PHONE fields, what change(s) would you recommend?**
 - a. I would recommend breaking up the name into multiple fields (first and last name) and for the EMP_PHONE field, I might split that up into two fields, 1 for area code and 1 for phone number.