

CSc3350: Software Development

Lab 7

INSTRUCTIONS, PLEASE READ.

- 1) In Lab4 you learned how to create a new database, tables, and columns. Today you are creating a new ‘employeeData2’ database.
- 2) Set your ‘employeeData2’ database as the ‘default’ database in dBeaver.
 - a. Right click (Mac: <CTRL>-Click) on your new database in ‘Database Navigator’ (left) pane.
 - b. Click ‘Set as default’, you should see something where your database is in **BOLD**.
 - c. Right click (Mac: <CTRL>-Click) on ‘employeeData2’ to make a pop-up menu: ‘SQL Editor’
 - d. Click ‘SQL Editor’ and then ‘New Script’
- 3) Copy and paste the contents of the ‘employeeData2_MySQL_create.sql’ file and run it to create all tables with columns.
- 4) Create a ‘New Script’ window for ‘employeeData2’ database, then copy and paste the contents of the ‘employeeData2_INSERT_datum.sql’ file and run it to load data into all tables.
- 5) Instructions are in comments in the **GetEmployeesPayroll.java** file.
- 6) The given code in ‘main()’ pulls all employee records and as each one is current in the ‘while (myRS.next()) {’ loop, the secondary SQL statement is called in a java method ‘getPayByMonth ()’. This method has two parameters passed from the main loop:
 - a. current employee ID (empid)
 - b. SQL connection object so you don’t have to create another one.
- 7) Use the **Payroll.java** class containing a method called ‘getPayByMonth()’ from the starter code.
 - a. The default constructor is empty.
 - b. You must send the ‘empID’ and a Connection object (like the method in the main program) as parameters and must use these in the new SQL select statement to get payroll records for each employee ID.
 - c. You can delete the method in the main program of ‘GetEmployeesPayroll.java’ file.
- 8) Turn into the iCollege assignment:
 - a. **GetEmployeesPayroll.java**
 - b. **Payroll.java**
 - c. A screen shot showing output (like mine shown below). **ENSURE** you have your name in the title of the report: “**EMPLOYEE PAYROLL REPORT by <Your Name>**” This is ensuring to me, you at least edited some of the code.
 - d. File types allowed are: **.java, .pdf, .docx, .png, .jpeg, .WebP, .docx**

EMPLOYEE PAYROLL REPORT by Dr. Johnson										
Name= Snoopy Beagle		Title=Chief Info. Officer	Snoopy@example.com							
EMP ID	PAY DATE	GROSS	Federal	FedMed	FedSS	State	401K			
1	2024-09-30	865.38	276.92	12.55	53.65	103.85	3.46	26.83		
1	2024-10-31	865.38	276.92	12.55	53.65	103.85	3.46	26.83		
Name= Charlie Brown		Title=Chief Exec. Officer	Charlie@example.com							
EMP ID	PAY DATE	GROSS	Federal	FedMed	FedSS	State	401K			
2	2024-09-30	923.08	295.38	13.38	57.23	110.77	3.69	28.62		
2	2024-10-31	923.08	295.38	13.38	57.23	110.77	3.69	28.62		
Name= Lucy Doctor		Title=Chief Finn. Officer	Lucy@example.com							
EMP ID	PAY DATE	GROSS	Federal	FedMed	FedSS	State	401K			
3	2024-09-30	1057.69	338.46	15.34	65.58	126.92	4.23	32.79		
3	2024-10-31	1057.69	338.46	15.34	65.58	126.92	4.23	32.79		
Name= Peppermint Patti		Title=software engineer	Peppermint@example.com							
EMP ID	PAY DATE	GROSS	Federal	FedMed	FedSS	State	401K			
4	2024-09-30	1884.62	603.08	27.33	116.85	226.15	7.54	58.42		
4	2024-10-31	1884.62	603.08	27.33	116.85	226.15	7.54	58.42		
Name= Linus Blanket		Title=software architect	Linus@example.com							
EMP ID	PAY DATE	GROSS	Federal	FedMed	FedSS	State	401K			
5	2024-09-30	826.92	264.62	11.99	51.27	99.23	3.31	25.63		
5	2024-10-31	826.92	264.62	11.99	51.27	99.23	3.31	25.63		
Name= PigPin Dusty		Title=marketing associate	PigPin@example.com							
EMP ID	PAY DATE	GROSS	Federal	FedMed	FedSS	State	401K			
6	2024-09-30	634.62	203.08	9.2	39.35	76.15	2.54	19.67		
6	2024-10-31	634.62	203.08	9.2	39.35	76.15	2.54	19.67		
Name= Scooby Doo		Title=software manager	Scooby@example.com							
EMP ID	PAY DATE	GROSS	Federal	FedMed	FedSS	State	401K			