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## DBMS LAB 06 TASKS

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**Note:** Write down your commands and errors encountered in a notepad file to be evaluated.

**Instructions:** Execute the Citizen\_Citizen\_DML.sql file in your SQL console to create the *Citizen* table and then write down the necessary SQL queries to answer questions 1-22 on this table. For questions 22-25, follow the instructions mentioned just before question 23. Some questions contain hints to help you answer them.

1. What is the maximum salary?
2. Which male person has the maximum income? [Hint: nested query]
3. Which female person has the least income? [Hint: Nested Query]
4. Which teacher has the most income?
5. Who is the most earning doctor?
6. Which citizens have 'a' in their name?
7. Which citizens have 'y' as the third character in their name?
8. What is the average age of this table?
9. What is the total income of all the doctors of the table?
10. What is the average income of the students?
11. Show the name of the most earning female student.
12. What is the number of cities with 'tg' in their name?
13. What is the maximum salary of citizens whose name starts with 'A'?
14. Show the description of the minimum earning student.
15. What is the average age of the students?
16. Make a list which will show the number of citizens belonging to each city.

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17. Find the minimum salary of each city.
  18. Categorize the average salary of the citizens of Dhaka based on occupation.
  19. Categorize the average salary of female citizens based on occupation where the maximum salary is at least 10000.
  20. What is the number of citizens whose salary is not within the range 40000-50000?
  21. If the state decided to oust the citizens whose salary is less than 20000, what will be the remaining number of citizens in Ctg? [Hint: You can use nested query]
  22. Find the average salary of upper middle-class citizens (i.e. salary  $\geq$  55000) under each city if there are at least two citizens in that city.

**Take a look at the following schema. You don't need to show any data entry for these tables. Create these tables manually and then write down the necessary SQL queries to answer the subsequent questions (23, 24, 25).**

*Districts(name(pk),size, weather)*

*Citizens(ID(pk), name, dob, dist(fk[District]))*

*CovidInjected(Citizen(pk) and fk[Citizens],date of vaccination,place of vaccination)*

23. List the district as Name of district, size of district,total number of citizen.
24. List the districts Name that have at most 50000 people in it.
25. List the top 3 districts based on the least number of vaccinated citizens.