University of Central Punjab
Faculty of Information Technology

Introduction to Database Systems
FALL 2023
Assignment-2B

Total Marks: 50

Instructions:

- *RA must be hand written and SQL statements must be submitted online*

Write SQL and Relational Algebra statements for the following:

1. Show the details of the male employees who do not work for Dept #5.
2. Show the details of the projects being run under Dept #5.
3. Show the details of all the daughters.
4. Show the details of all dependents and all column names have the word UCP appended to them.
5. Show the combinations of genders and salaries offered by the company.
6. Show the names and salaries of the female employees.
7. Show the names and genders of the employees working in Dept #4 and earning less than 30K.
8. Show the names and relationships of the dependents of employee #123456789
9. Show the details of the male employees who earn more than 30K but less than 50K
10. Show the ids of the employees who spent 10 hours or 20 hours or 5 hours on any project.
11. Show the details of the employees who are supervised by either 3334445555 or 987654321.
12. Show the names, salaries and addresses of the employees who do not have any supervisor.
13. Show the names and genders of the dependents who were born in May of any year.
14. Show the names and salaries of the employees who do not live in Houston.
15. Show the names and gender of the employees whose first name contains 2 n's.
16. Show the name and salaries of the employees whose first name start with 'J' or their last name has more than 5 characters.
17. Show the details of the dependents whose name start with 'A'
18. Show the names, genders, salaries and current age of all employees of Dept# 5 in years.
19. Show the details of the employees whose full name contain 2 'n's.
20. Show the ids of the people who live in Houston or work on project # 10.
21. Show the ids of the employees who live in Houston and have a female dependent.
22. Show the ids of the employees who live in Houston but are not managing any departments.
23. Show the names of the departments and the names and salaries of the male workers n these departments.
24. Show the names of the employees along with the names of their supervisors.
25. Show the name of the dependents whose parents work on some project located in Stafford or work for some department with office in Stafford.