Bhagwan Parshuram Institute of Technology

B.Tech (IT) 4th Semester

Subject: CIC-256: DBMS Lab.

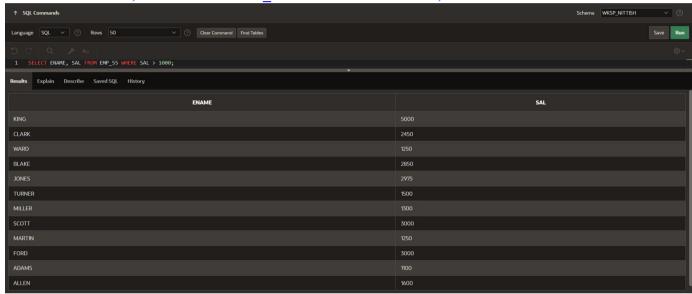
List of Practical Exercises

Set 2: Querying Single Table

Note: Consider the EMP and DEPT tables created in Set 1 for the following queries.

1. List the name and salary of the employees whose salary is more than 1000.

SELECT ENAME, SAL FROM EMP 55 WHERE SAL > 1000;



2. List the names of clerks working in the department 20.

SELECT ENAME FROM EMP 55 WHERE JOB = 'CLERK' AND DEPTNO = 20;



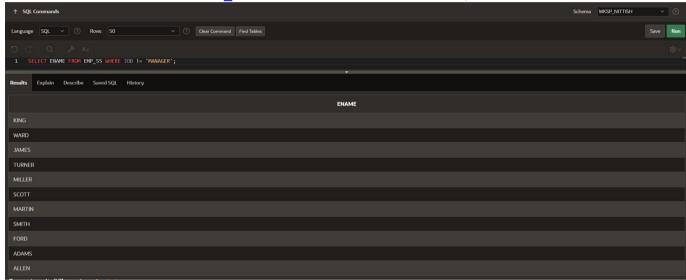
3. List the names of analysts and salesman.

SELECT ENAME FROM EMP 55 WHERE JOB IN ('ANALYST', 'SALESMAN');



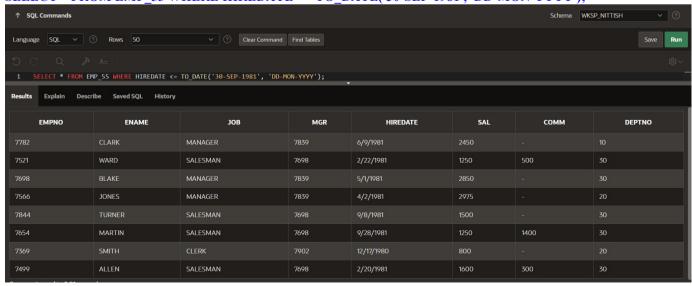
4. List the names of employees who are not manager.

SELECT ENAME FROM EMP 55 WHERE JOB != 'MANAGER';



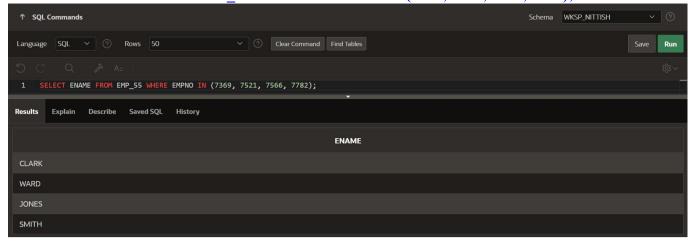
5. List the details of the employees who have joined before the end of september'81.

SELECT * FROM EMP 55 WHERE HIREDATE <= TO DATE('30-SEP-1981', 'DD-MON-YYYY');



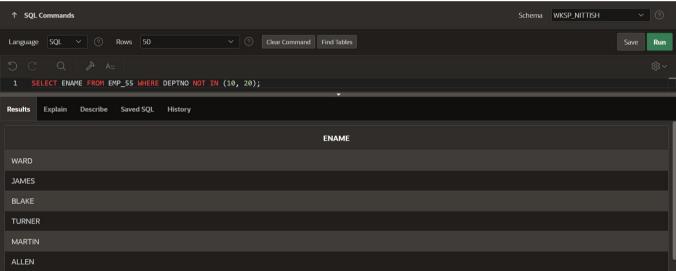
6. List the names of the employees whose employee numbers are 7369,7521,7566,7782.

SELECT ENAME FROM EMP 55 WHERE EMPNO IN (7369, 7521, 7566, 7782);



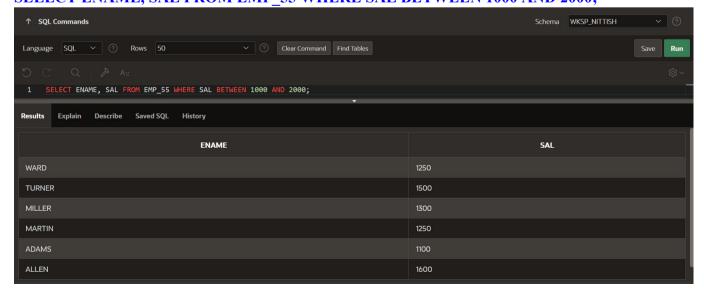
7. List the names of the employees not belonging to the department 10 and 20.

SELECT ENAME FROM EMP_55 WHERE DEPTNO NOT IN (10, 20);



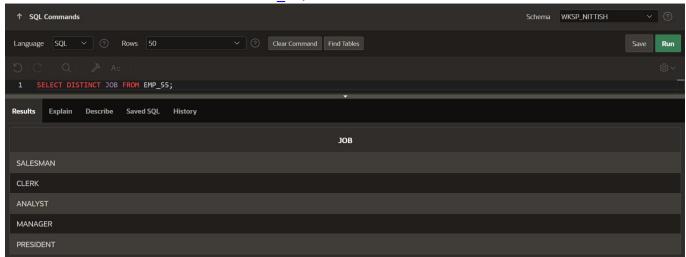
8. List the employees name and salary, whose salary is between 1000 and 2000.

SELECT ENAME, SAL FROM EMP 55 WHERE SAL BETWEEN 1000 AND 2000;



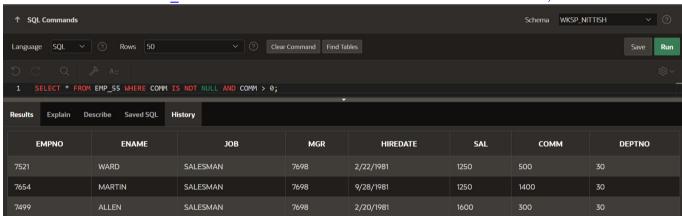
9. List the different jobs available in the employee table.

SELECT DISTINCT JOB FROM EMP 55;



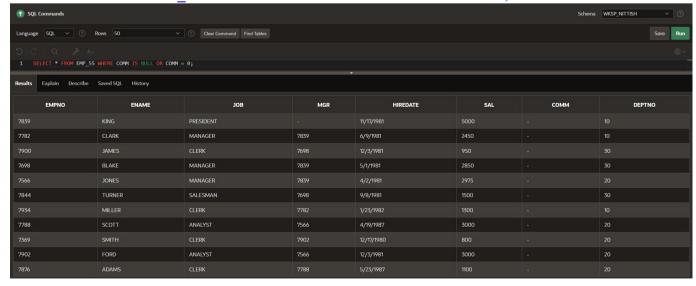
10. List the employees who are eligible for commission.

SELECT * FROM EMP 55 WHERE COMM IS NOT NULL AND COMM > 0;



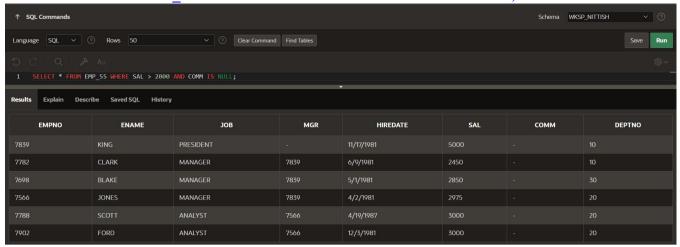
11. List the employees who are not eligible for commission.

SELECT * FROM EMP 55 WHERE COMM IS NULL OR COMM = 0;



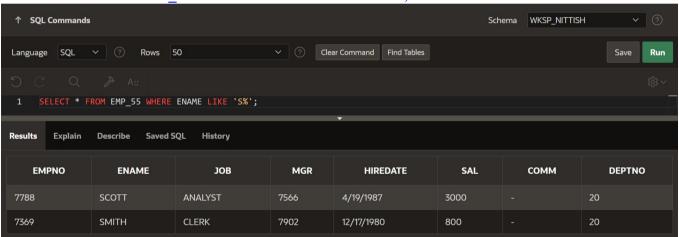
12. List the details of the employees whose salary is greater than 2000 and commission is null.

SELECT * FROM EMP 55 WHERE SAL > 2000 AND COMM IS NULL;



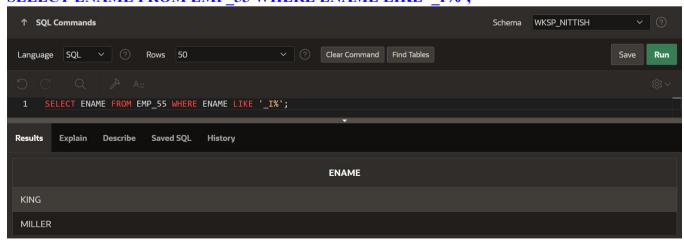
13. List the employees whose name start with 'S'.

SELECT * FROM EMP 55 WHERE ENAME LIKE 'S%';



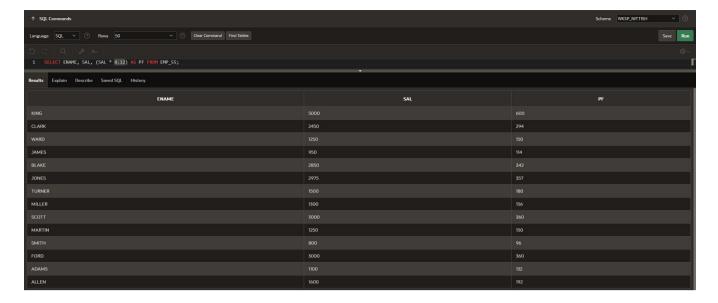
14. List the employee names having 'I' as the second character.

SELECT ENAME FROM EMP 55 WHERE ENAME LIKE ' 1%';



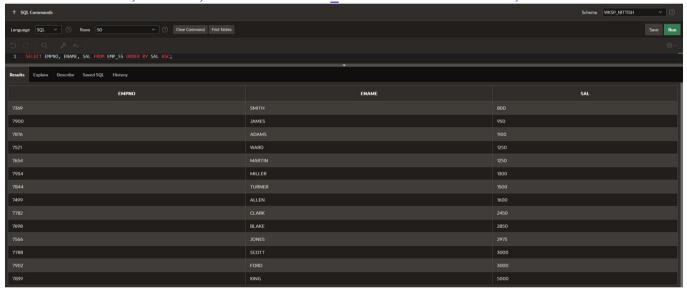
15. List the name, salary, and PF amount of all the employees.

SELECT ENAME, SAL, (SAL * 0.12) AS PF AMOUNT FROM EMP 55;



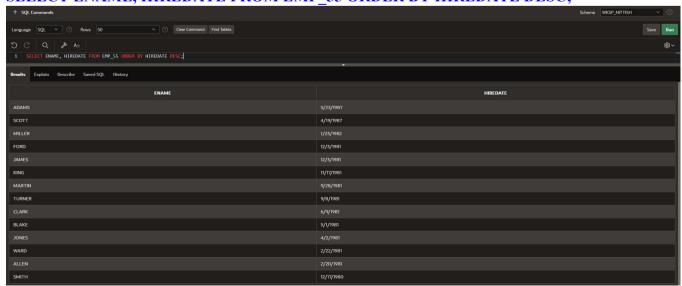
16. List the employee ID, name and salary in ascending order of salary.

SELECT EMPNO, ENAME, SAL FROM EMP 55 ORDER BY SAL ASC;



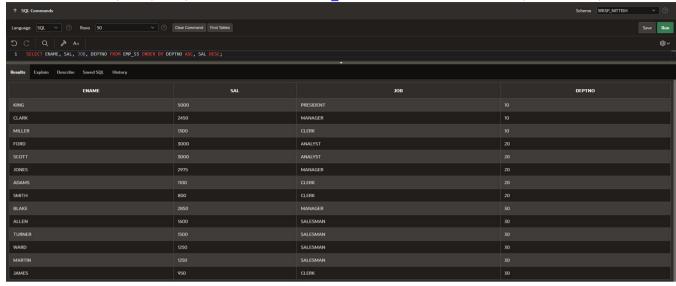
17. List the employees name and date of joining in descending order of date of joining.

SELECT ENAME, HIREDATE FROM EMP 55 ORDER BY HIREDATE DESC;



18. List the employees name, salary, job, and department number in ascending order of the department number and then on descending order of salary.

SELECT ENAME, SAL, JOB, DEPTNO FROM EMP_55 ORDER BY DEPTNO ASC, SAL DESC;



19. List the employees name, salary, PF, HRA, DA, and GROSS, order the result in ascending order of gross. (HRA is 50% of salary, DA is 30% of salary, PF is 10% of salary)

SELECT ENAME,

SAL,

(SAL * 0.10) AS PF,

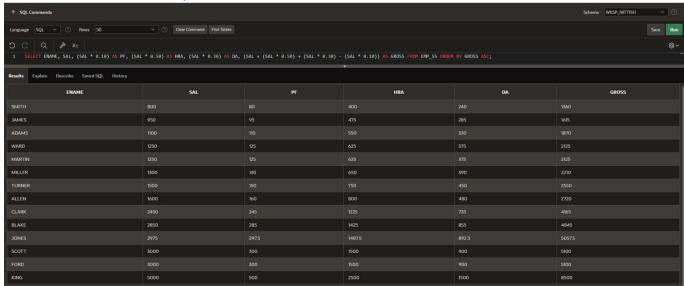
(SAL * 0.50) AS HRA,

(SAL * 0.30) AS DA,

(SAL + (SAL * 0.50) + (SAL * 0.30) - (SAL * 0.10)) AS GROSS

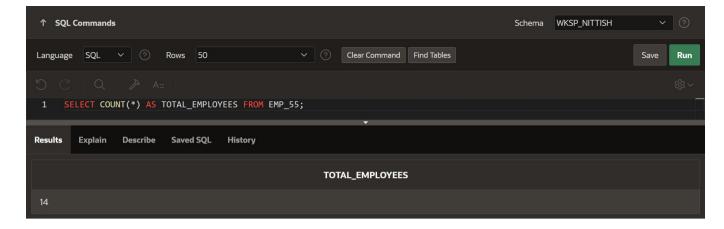
FROM EMP 55

ORDER BY GROSS ASC;



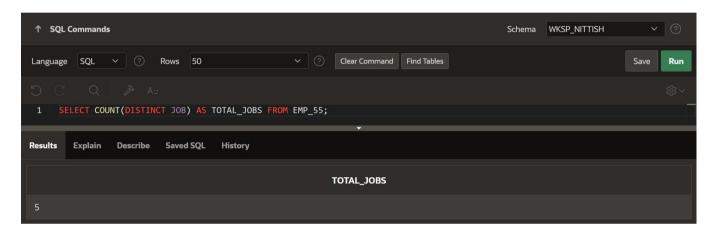
20. List the number of employees working with the company.

SELECT COUNT(*) AS TOTAL EMPLOYEES FROM EMP 55;



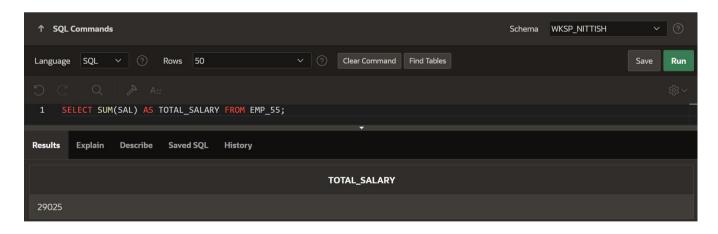
21. List the number of jobs available in the emp table.

SELECT COUNT(DISTINCT JOB) AS TOTAL_JOBS FROM EMP_55;



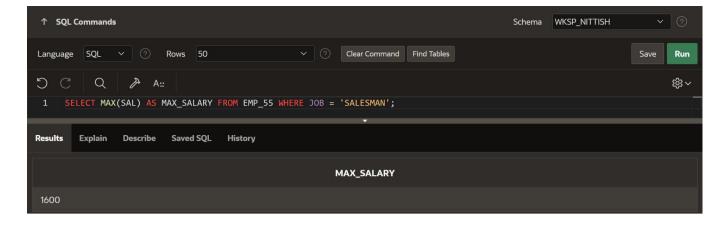
22. List the total salary payable to employees.

SELECT SUM(SAL) AS TOTAL SALARY FROM EMP 55;



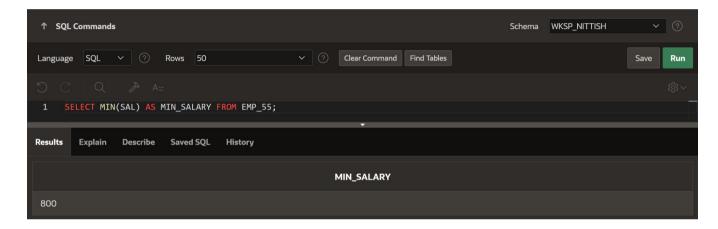
23. List the maximum salary of employee working as a salesman.

SELECT MAX(SAL) AS MAX_SALARY FROM EMP_55 WHERE JOB = 'SALESMAN';



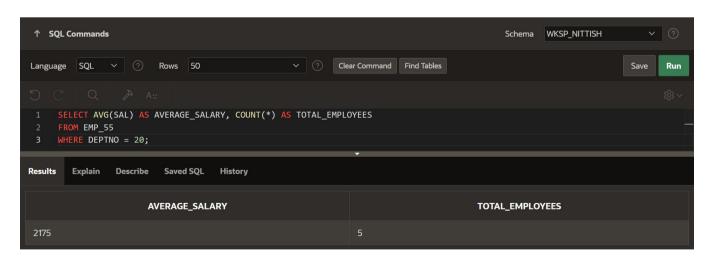
24. List the minimum salary.

SELECT MIN(SAL) AS MIN_SALARY FROM EMP_55;



25. List the average salary and number of employees working in the department 20.

SELECT AVG(SAL) AS AVERAGE_SALARY, COUNT(*) AS TOTAL_EMPLOYEES FROM EMP_55 WHERE DEPTNO = 20;



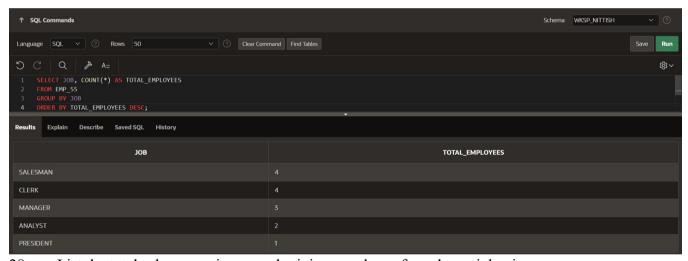
26. List the department number and number of employees in each department.

SELECT DEPTNO, COUNT(*) AS TOTAL_EMPLOYEES FROM EMP_55 GROUP BY DEPTNO;



27. List the job and the number employees in each job. The result should be in descending order of the number of employees.

SELECT JOB, COUNT(*) AS TOTAL_EMPLOYEES FROM EMP_55
GROUP BY JOB
ORDER BY TOTAL_EMPLOYEES DESC;

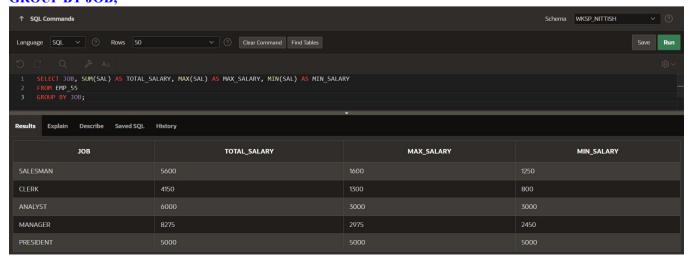


28. List the total salary, maximum and minimum salary of employee job wise.

SELECT JOB, SUM(SAL) AS TOTAL_SALARY, MAX(SAL) AS MAX_SALARY, MIN(SAL) AS MIN_SALARY

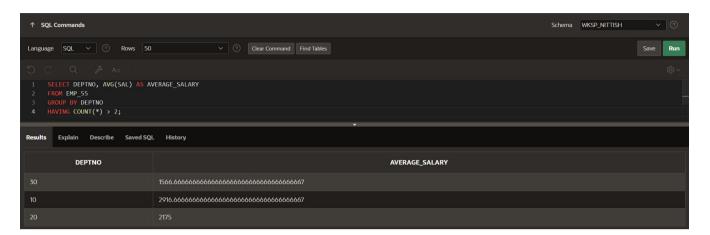
FROM EMP_55

GROUP BY JOB;



29. List the average salary for all the departments employing more than 2 people.

SELECT DEPTNO, AVG(SAL) AS AVERAGE_SALARY FROM EMP_55
GROUP BY DEPTNO
HAVING COUNT(*) > 2;



30. List the jobs of all the employees where maximum salary is greater than or equal to 1000.

SELECT JOB FROM EMP_55 GROUP BY JOB HAVING MAX(SAL) >= 1000;

