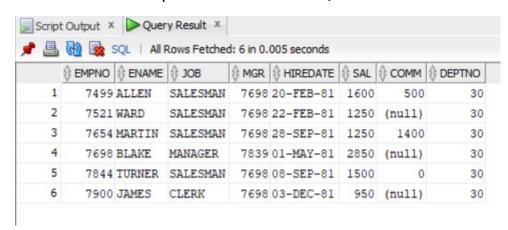
CSE2007 DBMS LAB

SLOT: L39+L40

NAME - AMAN SAHU REG. NO – 22BCE7224 EXPERIMENT NO.-4

1. Find employees who earn more than every employee in dept 30?*

SELECT * FROM emp WHERE DEPTNO=30;



2. Find the job with the highest average salary?

Code-

Code-

SELECT JOB FROM emp WHERE SAL=(SELECT MAX(SAL) FROM emp);



3. Display the name, job, hiredate for employees whose salary is greater than the highest salary in the sales department?

Code-

SELECT ENAME, JOB, HIREDATE FROM emp WHERE SAL> (SELECT MAX(SAL) FROM emp WHERE DEPTNO=30);

	⊕ ENAME	∜ JOB	♦ HIREDATE
1	JONES	MANAGER	02-APR-81
2	SCOTT	ANALYST	19-APR-87
3	KING	PRESIDENT	17-NOV-81
4	FORD	ANALYST	03-DEC-81

4. Copy all information on dept10 into the D10 table?*

CREATE TABLE D10 AS SELECT * FROM emp WHERE DEPTNO = 10; SELECT * FROM D10;

			∳ ЈОВ	MGR	♦ HIREDATE	∜ SAL	⊕ СОММ	
1	7782	CLARK	MANAGER	7839	09-JUN-81	2450	(null)	10
2	7839	KING	PRESIDENT	(null)	17-NOV-81	5000	(null)	10
3	7934	MILLER	CLERK	7782	23-JAN-82	1300	(null)	10

5. Delete all information on dept10 from emp table?

Code-

DELETE FROM emp WHERE DEPTNO = 10;

SELECT * FROM emp;

	♦ EMPNO		∯ JOB	∯ MGR	♦ HIREDATE	♦ SAL	⊕ СОММ	
1	7369	SMITH	CLERK	7902	17-DEC-80	800	300	20
2	7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	500	30
3	7521	WARD	SALESMAN	7698	22-FEB-81	1250	(null)	30
4	7566	JONES	MANAGER	7839	02-APR-81	2975	(null)	20
5	7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
6	7698	BLAKE	MANAGER	7839	01-MAY-81	2850	(null)	30
7	7788	SCOTT	ANALYST	7566	19-APR-87	3000	(null)	20
8	7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
9	7876	ADAMS	CLERK	7788	23-MAY-87	1100	(null)	20
10	7900	JAMES	CLERK	7698	03-DEC-81	950	(null)	30
11	7902	FORD	ANALYST	7566	03-DEC-81	3000	(null)	20

6. Delete rows from dept table of those dept numbers do not have matching rows in the emp table?

Code-

DELETE FROM dept WHERE deptno NOT IN (SELECT deptno FROM emp);

SELECT * FROM dept;

1 10 ACCOUNTING NEW	VODE
	TORK
2 20 RESEARCH DAI	LAS
3 30 SALES CHI	CAGO

7. List the emp name & salary increased by 15% and expressed as whole no of dollars?

Code-

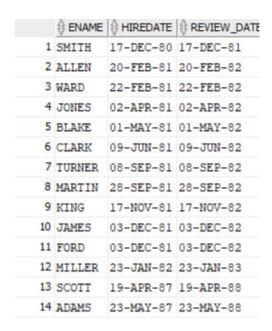
SELECT ENAME, ROUND(SAL * 1.15) AS INCREASED_SALARY FROM emp;

	♦ ENAME	
1	SMITH	920
2	ALLEN	1840
3	WARD	1438
4	JONES	3421
5	MARTIN	1438
6	BLAKE	3278
7	CLARK	2818
8	SCOTT	3450
9	KING	5750
10	TURNER	1725
11	ADAMS	1265
12	JAMES	1093
13	FORD	3450
14	MILLER	1495

8. Display each employee name with hiredate & review date. Assume review date is one year after hiredate. Order output in assending review date order? Code-

SELECT ENAME, HIREDATE, HIREDATE + INTERVAL '1' YEAR AS REVIEW_DATE FROM emp

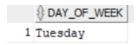
ORDER BY REVIEW_DATE;



9. Write query which will return the day of the week, for any date entered in the format DD.MM.YY?

Code-

SELECT TO_CHAR(TO_DATE('15.02.22', 'DD.MM.YY'), 'Day') AS DAY_OF_WEEK FROM dual;



10. List the min & max salary for each job type?*

Code-

SELECT JOB, MIN(SAL) AS MIN_SALARY, MAX(SAL) AS MAX_SALARY FROM emp

GROUP BY JOB;

	JOB		MAX_SALARY
1	CLERK	800	1300
2	SALESMAN	1250	1600
3	ANALYST	3000	3000
4	MANAGER	2450	2975
5	PRESIDENT	5000	5000

11. Find avg salary & avg total remunation for each job title. Remember salesman earn commission?

Code-

SELECT JOB, AVG(SAL) AS AVG_SALARY, AVG(SAL + NVL(COMM, 0)) AS AVG_TOTAL_REMUNERATION

FROM emp

GROUP BY JOB;

		♦ AVG_SALARY	♦ AVG_TOTAL_REMUNERATION
1	CLERK	1037.5	1112.5
2	SALESMAN	1400	1875
3	ANALYST	3000	3000
4	MANAGER	2758.333333333333333333333333333333333	2758.3333333333333333333333333333333333
5	PRESIDENT	5000	5000

12. Find all dept's which have more than 3 employees?

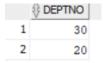
Code-

SELECT DEPTNO

FROM emp

GROUP BY DEPTNO

HAVING COUNT(*) > 3;



13. List the employee name, job, salary, grade, dept name for every one in the company except clerks. Sort on salary displaying the highest salary first?

Code-

SELECT ENAME, JOB, SAL, dname

FROM emp

JOIN dept ON emp.DEPTNO = dept.DEPTNO

WHERE JOB <> 'CLERK'

ORDER BY SAL DESC;

	♦ ENAME	∳ JOB	∯ SAL	
1	KING	PRESIDENT	5000	ACCOUNTING
2	SCOTT	ANALYST	3000	RESEARCH
3	FORD	ANALYST	3000	RESEARCH
4	JONES	MANAGER	2975	RESEARCH
5	BLAKE	MANAGER	2850	SALES
6	CLARK	MANAGER	2450	ACCOUNTING
7	ALLEN	SALESMAN	1600	SALES
8	TURNER	SALESMAN	1500	SALES
9	WARD	SALESMAN	1250	SALES
10	MARTIN	SALESMAN	1250	SALES

14. List the ename, job, annual salary, deptno, dname, grade of employees who earn \$36000 a year or who are clerks?

Code-

SELECT ENAME, JOB, SAL * 12 AS ANNUAL_SALARY, emp.DEPTNO, dname FROM emp

JOIN dept ON emp.DEPTNO = dept.DEPTNO

WHERE SAL = 3000 OR JOB = 'CLERK';

						_
	♦ ENAME	JOB	\$ ANNUAL_SALARY		DNAME	
1	SMITH	CLERK	9600	20	RESEARCH	
2	SCOTT	ANALYST	36000	20	RESEARCH	
3	ADAMS	CLERK	13200	20	RESEARCH	
4	JAMES	CLERK	11400	30	SALES	
5	FORD	ANALYST	36000	20	RESEARCH	
6	MILLER	CLERK	15600	10	ACCOUNTING	

15. Show name, salary, deptno for any employee who earns a salary greater than the average for their dept. Sort in dept order?

Code-

SELECT ENAME, SAL, emp.deptno

FROM emp

WHERE SAL > (SELECT AVG(SAL) FROM emp,dept WHERE emp.deptno = dept.deptno)

ORDER BY emp.deptno;

		∳ SAL		
1	CLARK	2450	10	
2	KING	5000	10	
3	FORD	3000	20	
4	SCOTT	3000	20	
5	JONES	2975	20	
6	BLAKE	2850	30	

16. Find all employees whose dept is not in the dept table?

Code-

SELECT *

FROM emp

WHERE DEPTNO NOT IN (SELECT DEPTNO FROM dept);

	JOB	∯ MGR	♦ HIREDATE	SAL	COMM	DEPTNO	
--	-----	-------	------------	-----	------	--------	--

17. Who are the top 3 earners in the company. Display their name and salary?

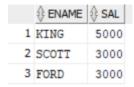
Code-

SELECT ENAME, SAL

FROM emp

ORDER BY SAL DESC

FETCH FIRST 3 ROWS ONLY;



18. List employees with either the same job as jones or a salary greater than or equal to ford's, order by job and salary?

Code-

SELECT ENAME, JOB, SAL

FROM emp

WHERE JOB = (SELECT JOB FROM emp WHERE ENAME = 'JONES')

OR SAL >= (SELECT SAL FROM emp WHERE ENAME = 'FORD')

ORDER BY JOB, SAL;

	♦ ENAME	∳ JOB	§ SAL
1	SCOTT	ANALYST	3000
2	FORD	ANALYST	3000
3	CLARK	MANAGER	2450
4	BLAKE	MANAGER	2850
5	JONES	MANAGER	2975
6	KING	PRESIDENT	5000

19. List employees in deptno 10 with the same job as anyone in the sales dept?

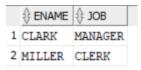
Code-

SELECT ENAME, JOB

FROM emp

WHERE DEPTNO = 10

AND JOB IN (SELECT JOB FROM emp WHERE DEPTNO = (SELECT DEPTNO FROM dept WHERE DNAME = 'SALES'));



20. List the employees having the same job as employees located in chicago?

Code-

SELECT ENAME, JOB

FROM emp

WHERE JOB IN (SELECT JOB FROM emp WHERE DEPTNO = (SELECT DEPTNO FROM dept WHERE DNAME = 'CHICAGO'));



21. List employee whose salary is equal to that of SCOTT or WARD?

Code-

SELECT ENAME, JOB, SAL

FROM emp

WHERE SAL = (SELECT SAL FROM emp WHERE ENAME IN ('SCOTT', 'WARD'));

22. Delete all employees with the same job as jones and jones should not be deleted?

Code-

DELETE FROM emp

WHERE JOB = (SELECT JOB FROM emp WHERE ENAME = 'JONES') AND ENAME <> 'JONES';

SELECT * FROM emp;

			∜ JOB	∯ MGR		∜ SAL		
1	7369	SMITH	CLERK	7902	17-DEC-80	800	300	20
2	7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	500	30
3	7521	WARD	SALESMAN	7698	22-FEB-81	1250	(null)	30
4	7566	JONES	MANAGER	7839	02-APR-81	2975	(null)	20
5	7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
6	7788	SCOTT	ANALYST	7566	19-APR-87	3000	(null)	20
7	7839	KING	PRESIDENT	(null)	17-NOV-81	5000	(null)	10
8	7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
9	7876	ADAMS	CLERK	7788	23-MAY-87	1100	(null)	20
10	7900	JAMES	CLERK	7698	03-DEC-81	950	(null)	30
11	7902	FORD	ANALYST	7566	03-DEC-81	3000	(null)	20
12	7934	MILLER	CLERK	7782	23-JAN-82	1300	(null)	10

23. Write a query to delete the Duplicate rows for Emp table?

Code-

DELETE FROM emp

WHERE ROWID NOT IN (SELECT MIN(ROWID) FROM emp GROUP BY EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, DEPTNO);

SELECT * FROM emp;

		⊕ ENAME	∳ JOB	∯ MGR		∯ SAL		
1	7369	SMITH	CLERK	7902	17-DEC-80	800	300	20
2	7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	500	30
3	7521	WARD	SALESMAN	7698	22-FEB-81	1250	(null)	30
4	7566	JONES	MANAGER	7839	02-APR-81	2975	(null)	20
5	7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
6	7698	BLAKE	MANAGER	7839	01-MAY-81	2850	(null)	30
7	7782	CLARK	MANAGER	7839	09-JUN-81	2450	(null)	10
8	7788	SCOTT	ANALYST	7566	19-APR-87	3000	(null)	20
9	7839	KING	PRESIDENT	(null)	17-NOV-81	5000	(null)	10
10	7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
11	7876	ADAMS	CLERK	7788	23-MAY-87	1100	(null)	20
12	7900	JAMES	CLERK	7698	03-DEC-81	950	(null)	30
13	7902	FORD	ANALYST	7566	03-DEC-81	3000	(null)	20
14	7934	MILLER	CLERK	7782	23-JAN-82	1300	(null)	10

24. Write a query to display 5th row to 7th row of Emp Table?

Code-

SELECT *

FROM (SELECT e.*, ROWNUM rnum FROM emp e WHERE ROWNUM <= 7)
WHERE rnum >= 5;

		♦ ENAME	₿ ЈОВ	∯ MGR	♦ HIREDATE	∯ SAL	⊕ сомм		♦ RNUM
1	7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30	5
2	7698	BLAKE	MANAGER	7839	01-MAY-81	2850	(null)	30	6
3	7782	CLARK	MANAGER	7839	09-JUN-81	2450	(null)	10	7

25. Write a query to display the 2nd Max Salary earning employee?

Code-

SELECT *

FROM (SELECT ENAME, SAL, RANK() OVER (ORDER BY SAL DESC) AS salary_rank FROM emp)

WHERE salary_rank = 2;

	⊕ ENAME	∳ SAL	\$ SALARY_RANK
1	SCOTT	3000	2
2	FORD	3000	2