## Lab 3 Database Systems

**Slides:**

Statement#1:

SELECT empno, ename, deptno FROM emp WHERE ename = 'blake';

No rows selected

Statement#2:

SELECT empno, ename, deptno FROM emp WHERE LOWER(ename) = 'blake';

|  |  |  |
| --- | --- | --- |
| **EMPNO** | **ENAME** | **DEPTNO** |
| 7698 | BLAKE | 30 |

Statement#3:

SELECT ename, CONCAT (ename, job), LENGTH(ename), INSTR(ename, 'A')FROM emp WHERE substr (job,1,5)='SALES';

|  |  |  |  |
| --- | --- | --- | --- |
| **ENAME** | **CONCAT(ENAME,JOB)** | **LENGTH(ENAME)** | **INSTR(ENAME,'A')** |
| ALLEN | ALLENSALESMAN | 5 | 1 |
| WARD | WARDSALESMAN | 4 | 2 |
| MARTIN | MARTINSALESMAN | 6 | 2 |
| TURNER | TURNERSALESMAN | 6 | 0 |

**Exercise:**

Q.8

SELECT ename, lpad(sal,15,'$') as "Salary" from emp

|  |  |
| --- | --- |
| **ENAME** | **Salary** |
| SMITH | $$$$$$$$$$$$800 |
| ALLEN | $$$$$$$$$$$1600 |
| WARD | $$$$$$$$$$$1250 |
| JONES | $$$$$$$$$$$2975 |
| MARTIN | $$$$$$$$$$$1250 |
| BLAKE | $$$$$$$$$$$2850 |
| CLARK | $$$$$$$$$$$2450 |
| SCOTT | $$$$$$$$$$$3000 |
| KING | $$$$$$$$$$$5000 |
| TURNER | $$$$$$$$$$$1500 |
| ADAMS | $$$$$$$$$$$1100 |
| JAMES | $$$$$$$$$$$$950 |
| FORD | $$$$$$$$$$$3000 |
| MILLER | $$$$$$$$$$$1300 |

Q.9

SELECT initcap(ename) as "Name", length(ename) as "Length" from emp where instr(ename,'J')=1 OR instr(ename,'M')=1 OR instr(ename,'A')=1;

|  |  |
| --- | --- |
| **Name** | **Length** |
| Allen | 5 |
| Jones | 5 |
| Martin | 6 |
| Adams | 5 |
| James | 5 |
| Miller | 6 |

**Practice:**

select substr(std\_name,1, instr(std\_name, ' ')) as "FName",

substr (std\_name, instr(std\_name, ' ')+1, instr( substr(std\_name, instr(std\_name, ' ')+1) ,' ' ) ) as "MName",

substr(std\_name, instr( substr(std\_name, instr(std\_name, ' ')+1) ,' ' )+1 ) as "LName

from pucit1

**Quiz:**

Q.3

select concat(empno, substr(ename,1,4)) as "User Passwords" from emp

|  |
| --- |
| **User Passwords** |
| 7369SMIT |
| 7499ALLE |
| 7521WARD |
| 7566JONE |
| 7654MART |
| 7698BLAK |
| 7782CLAR |
| 7788SCOT |
| 7839KING |
| 7844TURN |
| 7876ADAM |
| 7900JAME |
| 7902FORD |
| 7934MILL |

Q.2

select rpad (ename, length(ename)+((sal\*12)/1000) ,'\*') as "EMPLOYEES\_AND\_THEIR\_SALARIES" from emp order by (sal\*12) desc

|  |
| --- |
| **EMPLOYEES\_AND\_THEIR\_SALARIES** |
| KING\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |
| SCOTT\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |
| FORD\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |
| JONES\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |
| BLAKE\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |
| CLARK\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |
| ALLEN\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |
| TURNER\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |
| MILLER\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |
| WARD\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |
| MARTIN\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |
| ADAMS\*\*\*\*\*\*\*\*\*\*\*\*\* |
| JAMES\*\*\*\*\*\*\*\*\*\*\* |
| SMITH\*\*\*\*\*\*\*\*\* |

Q.1

select substr(data,1, instr(data, '')) as "FIRSTNAME",

substr (data, instr(std\_name, ',')+2, instr( substr(data, instr(data, ',')+1) ,',' ) ) as "LASTNAME" from std