Skiversity of Engineering and Technology amshoro

ASSIGNMENT : DQL STATEMENTS

SUBJECT : DBMS(THEORY)

ROLL NO : 24BSAI29

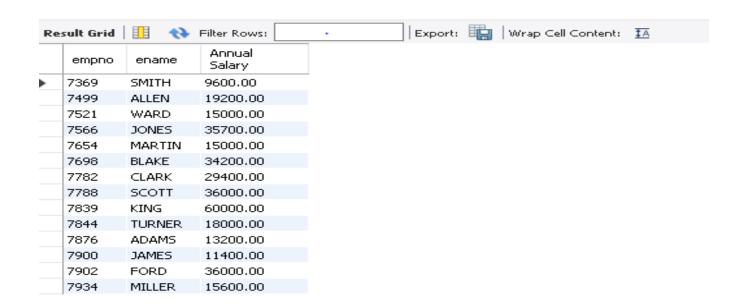
SUBMITTED BY: SYED MUHAMMAD QASIM

SUBMITTED TO: Ms. Sana Faiz

TASK A

1. Retrieving Data with SELECT Statement:

SELECT empno, ename, sal * 12 AS "Annual Salary" FROM emp;



TASK B

1. Find errors:

• Select empno, ename sal x 12 Annual Salary From emp; Corrected Query:

Select empno, ename, sal * 12 AS "Annual Salary" FROM emp;



2. Display employees' annual salary with a one-time bonus of \$100.

• Select empno, ename, (sal * 12) + 100 AS "Annual Salary with Bonus" FROM emp;



- 3. Display annual compensation as monthly salary plus a monthly bonus of \$100.
 - Select empno, ename, (sal + 100) * 12 AS "Annual compensation" From emp;

Re	sult Grid	***	Filter Rows:	Export:
	empno	ename	Annual compensation	
 	7369	SMITH	10800.00	
	7499	ALLEN	20400.00	
	7521	WARD	16200.00	
	7566	JONES	36900.00	
	7654	MARTIN	16200.00	
	7698	BLAKE	35400.00	
	7782	CLARK	30600.00	
	7788	SCOTT	37200.00	
	7839	KING	61200.00	
	7844	TURNER	19200.00	
	7876	ADAMS	14400.00	
	7900	JAMES	12600.00	
	7902	FORD	37200.00	
	7934	MILLER	16800.00	

4. Display rows in following format:

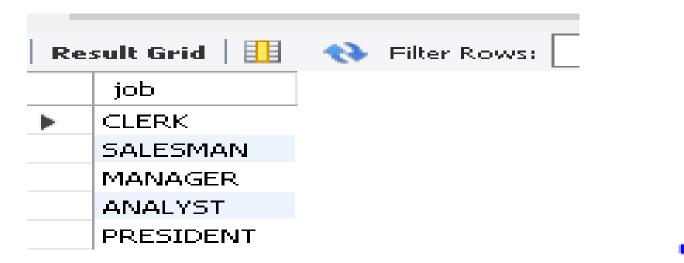
Monthly Salary

King: 1 month Salary = 5000

• Select concat(ename,": 1 Month Salary = ",sal) AS "Monthly Salary" From emp;



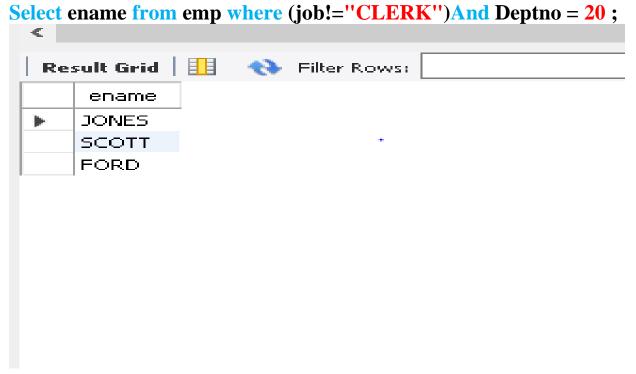
- 5. Display kinds of Jobs available in employee table.
 - select distinct job from emp;



TASK C

2. Using WHERE Clause for Filtering Data:

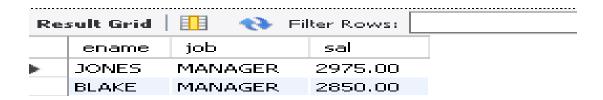
• Find all employees whose job is not CLERK and belong to department 20.



- Display the employee's name, job title & salary based on the following criteria:
 - a) If the employee is a salesman, then he should be included in the O/P
 - b) If the employee is a manager, then his salary package must be above 2450.
 - Select ename, job, sal From emp Where job = 'Salesman' OR (job = 'Manager' And sal > 2450);

Re	Result Grid 🔠 💎 Filter Rows:					
	ename	job	sal			
>	ALLEN	SALESMAN	1600.00			
	WARD	SALESMAN	1250.00			
	JONES	MANAGER	2975.00			
	MARTIN	SALESMAN	1250.00			
	BLAKE	MANAGER	2850.00			
	TURNER	SALESMAN	1500.00			

- Display employee's name, Job titles & salary if the employee is either a salesman or a manager & earns more than 2450.
 - select ename, job, sal from emp where (job = "SALESMAN" OR job = "MANAGER")AND sal>2450;



TASK D

- List the employees having at least two A's in their names.
 - select * from emp where ename like '%A%A%';

Result Grid 🔢 🙌			Filter Rows:			Export: 识 Wrap Cell Content:			
	empno	ename	job	mgr	hiredate	sal	comm	deptno	
•	7876	ADAMS	CLERK	7788	1983-01-12	1100.00	NULL	20	

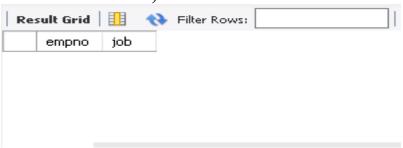
- List the employees whose names start with S and end at H.
 - select * from emp where ename like 'S%%H';



- List the employee whose name has E as the second character.
 - select * from emp where ename like ' E%';

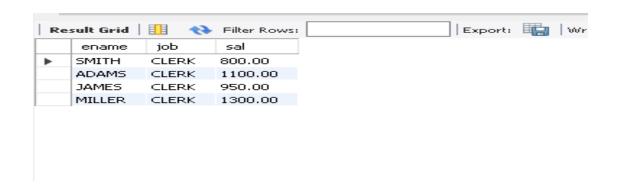


- Display employ number and job title of all employees who have a job title that contain the string 'MAN' & earn more than 10,000.
 - select empno, job From emp Where job Like '%MAN%' And sal > 10000;



TASK E

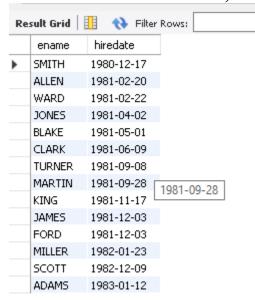
- Display list of employees who are either a clerk or an analyst & who do not earn 1000, 3000,5000.
 - select ename,job,sal from emp where job in ('CLERK','ANALYST') AND (sal!=1000 AND sal!=3000 AND sal!=5000);



TASK F

Display the names of employees according to their seniority.

• select ename ,hiredate from emp order by hiredate asc;



Display names and annual salary of all employees, also sort the result based on annual salary in descending order.

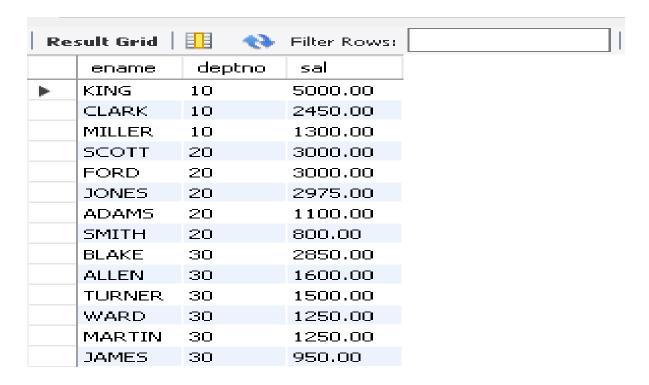
• select ename ,(sal*12) As "Annual Salary" from emp order by (sal*12) desc;



• Write a query which produces the following output.

S.NO	ENAME	DEPTNO	SAL
1	KING	10	5000
2	CLARK	10	2450
3	MILLER	10	1300
4	SCOTT	20	3000
5	FORD	20	3000
6	JONES	20	2975
7	ADAMS	20	1100
8	SMITH	20	800
9	BLAKE	30	2850
10	ALLEN	30	1600
11	TURNER	30	1500
12	MARTIN	30	1250
13	WARD	30	1250
14	JAMES	30	950

• select ename, deptno, sal from emp order by deptno asc, sal desc;



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