Module: Java Rdbms & Amp; Database program With Jdbc

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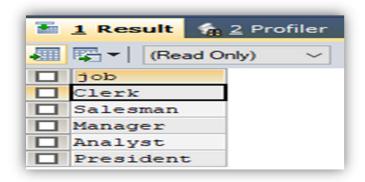
Subject: Java Rdbms & amp.

Module: Java Rdbms & Amp; Database program With Jdbc <u>Oueries</u>

1. Select unique job from EMP table.

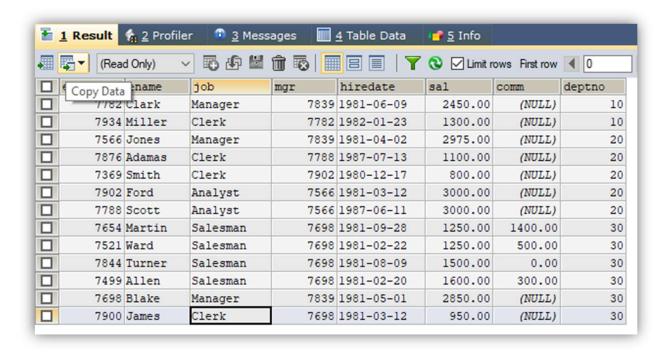
Ans. SELECT DISTINCT job FROM emp;

Screenshot:



2. List the details of the emps in asc order of the Dptnos and desc of Jobs?

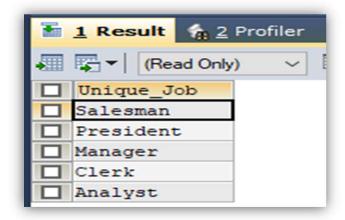
Ans. SELECT * FROM emp ORDER BY deptno ASC, job DESC;



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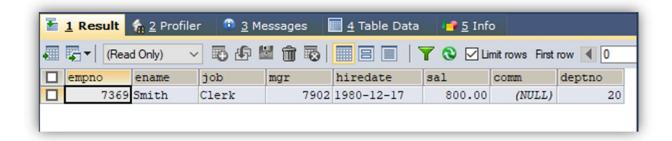
3. Display all the unique job groups in the descending order?

Ans. SELECT DISTINCT job FROM emp ORDER BY job DESC;



4. List the emps who joined before 1981.

Ans. SELECT * FROM emp WHERE hiredate < '1981-01-01';



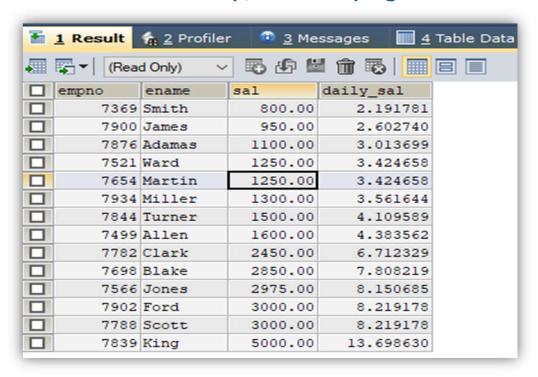
5. List the Empno, Ename, Sal, Daily sal of all emps in the asc order of Annsal.

Ans. SELECT empno, ename, sal, (sal / 365) AS daily_sal

FROM

Emp ORDER BY (sal * 12) ASC;

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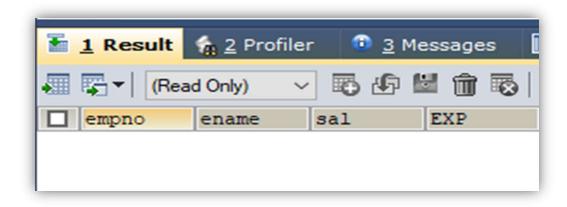
6. List the Empno, Ename, Sal, Exp of all emps working for Mgr 7369.

Ans. SELECT empno, ename, sal,

YEAR (CURDATE ()) - YEAR (hiredate) AS EXP

FROM

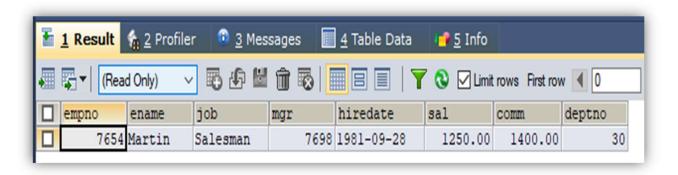
Emp WHERE mgr = 7369;



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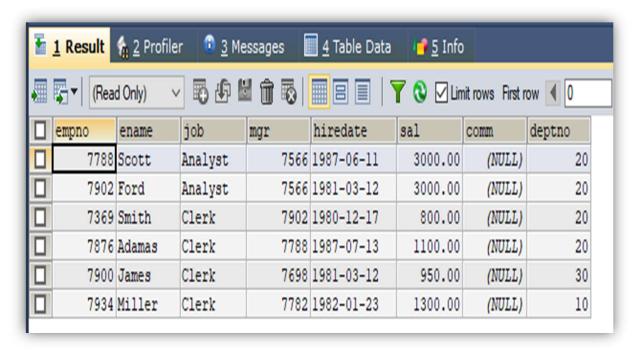
7. Display all the details of the emps who's Comm. Is more than their Sal?

Ans. SELECT * FROM emp WHERE comm > sal;



8. List the emps who are either 'CLERK' or 'ANALYST' in the Desc order.

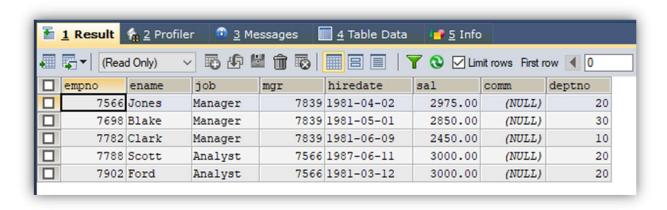
Ans. SELECT * FROM emp WHERE job IN ("Clerk","Analyst")
ORDER BY job;



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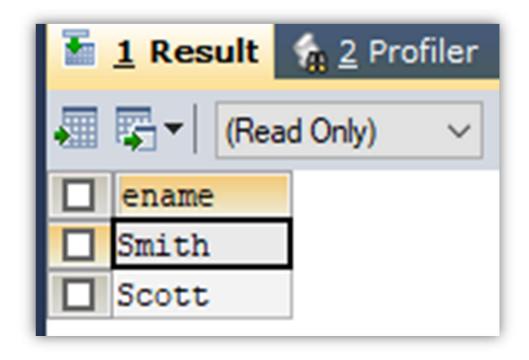
9.List the emps Who Annual sal ranging from 22000 and 45000.

Ans. SELECT * FROM emp WHERE (sal * 12) BETWEEN 22000 AND 45000;



10. List the Enames those are starting with 'S' and with five characters.

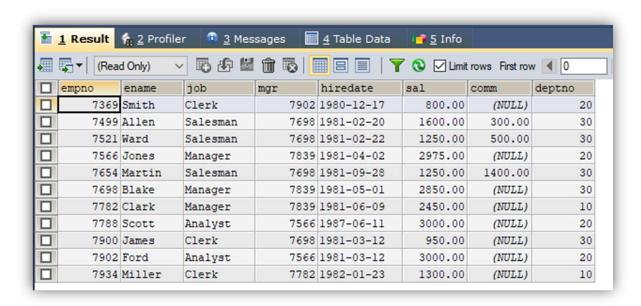
Ans. SELECT ename FROM emp WHERE ename LIKE 'S____';



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11. List the emps whose Empno not starting with digit78.

Ans. SELECT * FROM emp WHERE empno NOT LIKE "78%";

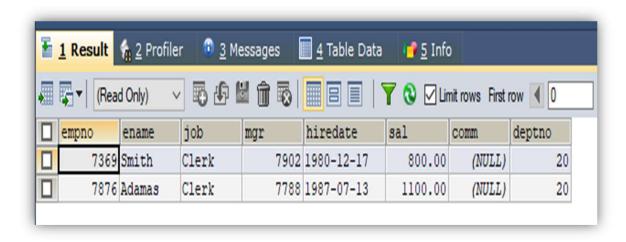


12. List all the Clerks of Deptno 20.

Ans. SELECT * FROM emp WHERE job = 'CLERK'

AND

deptno = 20;



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13. List the Emps who are senior to their own MGRS.

Ans. SELECT

- e1.empno, e1.ename,
- e1.hiredate AS emp_hiredate,
- e2.empno AS mgr_empno,
- e2.ename AS mgr_ename,
- e2.hiredate AS mgr_hiredate

FROM

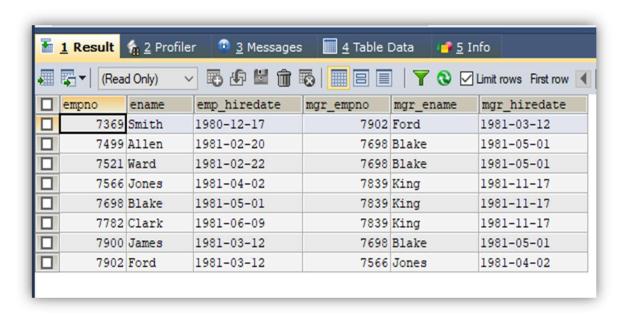
emp e1

JOIN

emp e2

ON e1.mgr = e2.empno

WHERE e1.hiredate < e2.hiredate;



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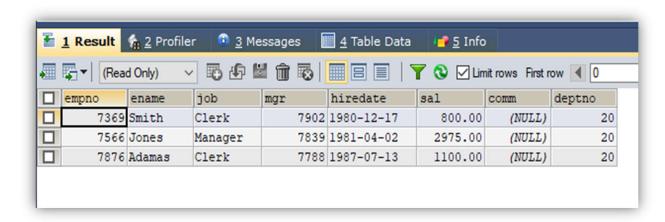
14. List the Emps of Deptno 20 who's Jobs are same as Deptno 10.

```
Ans. SELECT *FROM emp e1 WHERE deptno = 20 AND job IN (

SELECT DISTINCT job

FROM emp

WHERE deptno = 10
);
```



15. List the Emps who's Sal is same as FORD or SMITH in desc order of Sal.

```
Ans. SELECT * FROM emp

WHERE sal IN (

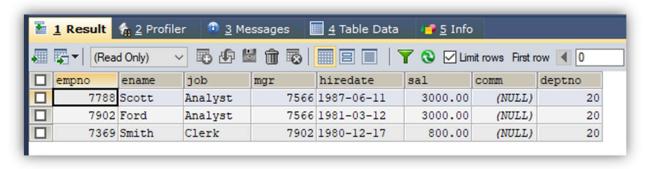
SELECT sal

FROM emp

WHERE ename IN ('FORD', 'SMITH')

) ORDER BY sal DESC;
```

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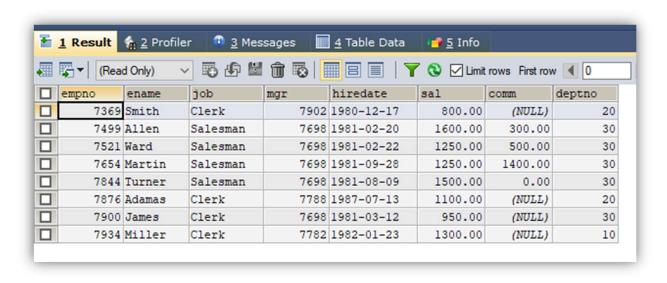
16. List the emps whose jobs same as SMITH or ALLEN.

Ans. SELECT *FROM emp WHERE job IN (

SELECT job

FROM emp

WHERE ename IN ('SMITH', 'ALLEN'));



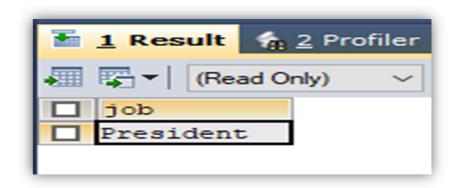
17. Any jobs of dept no 10 those that are not found inDept no 20.

Ans. SELECT DISTINCT job FROM emp WHERE deptno = 10

AND job NOT IN (SELECT DISTINCT job FROM emp

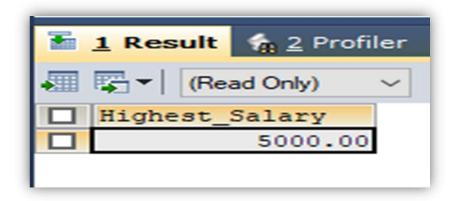
WHERE deptno = 20);

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18. Find the highest sal of EMP table.

Ans. SELECT MAX(sal) AS Highest_Salary FROM emp;



19. Find details of highest paid employee.

```
Ans. SELECT *

FROM emp

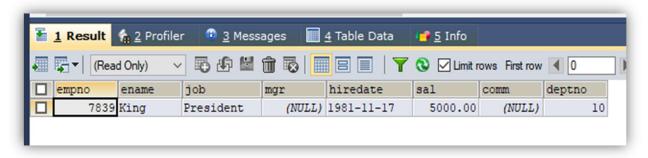
WHERE sal = (

SELECT MAX(sal)

FROM emp

);
```

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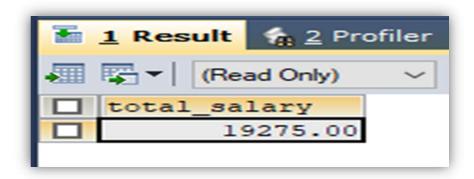


20. Find the total sal given to the MGR.

Ans. SELECT SUM(sal) AS total_salary

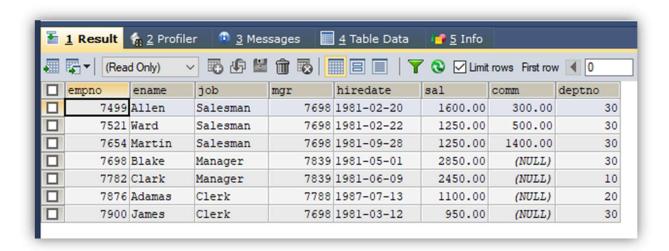
FROM emp

WHERE empno IN (SELECT DISTINCT mgr FROM emp);



21. List the emps whose names contains 'A'.

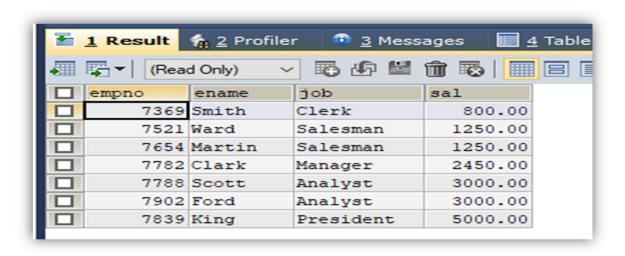
Ans. SELECT * FROM emp WHERE ename LIKE "%A%";



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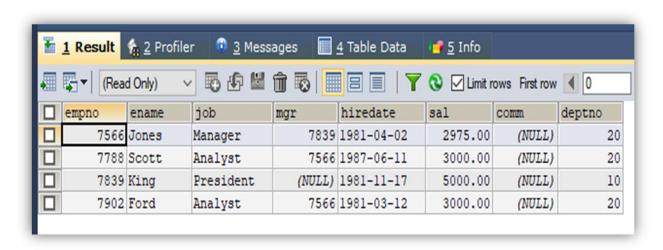
22. Find all the emps who earn the minimum salary for each job wise in ascending order.

Ans. SELECT empno, ename, job, sal FROM emp WHERE (job, sal)
IN (SELECT job, MIN (sal) FROM emp GROUP BY job)
ORDER BY sal ASC;



23. List the emps whose sal greater than Blake's sal.

Ans. SELECT * FROM emp WHERE sal > (SELECT sal FROM emp WHERE ename = 'BLAKE');



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24. Create view v1 to select ename, job, dname, loc whose deptno are same.

Ans. CREATE VIEW v1 AS SELECT e.ename, e.job, d.dname, d.loc FROM emp e JOIN dept d ON e.deptno = d.deptno;

```
## Messages  2 Table Data  3 Info

1 queries executed, 1 success, 0 errors, 0 warnings

Query: CREATE view v1 as select e.ename, e.job, d.dname, d.loc from emp e join dept d on e.deptno = d.deptno

0 row(s) affected

Execution Time : 0.010 sec
Transfer Time : 1.009 sec
Total Time : 1.020 sec
```

25. Create a procedure with dno as input parameter to fetch ename and dname.

```
Ans. DELIMITER $$
```

CREATE PROCEDURE fetch_ename_dname (IN p_dno INT)

BEGIN

SELECT e.ename, d.dname

FROM emp e

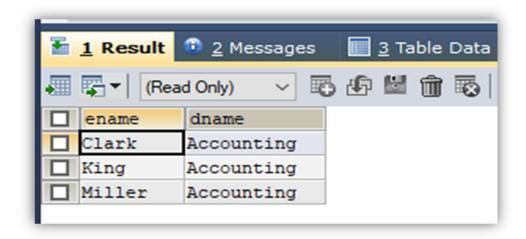
JOIN dept d ON e.deptno = d.deptno

WHERE e.deptno = p_dno;

END \$\$

DELIMITER;

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26. Add column Pin with bigint data type in table student.

Ans. ALTER TABLE student ADD COLUMN Pin BIGINT;

```
1 Messages 2 Table Data 3 Info
1 queries executed, 1 success, 0 errors, 0 warnings
Query: ALTER TABLE student ADD COLUMN Pin BIGINT
0 row(s) affected
Execution Time : 0.024 sec
Transfer Time : 1.040 sec
Total Time : 1.064 sec
```

- 27. Two Queries.
- 1) Modify the student table to change the sname length from 14 to 40.
- **Ans.** ALTER TABLE student MODIFY COLUMN sname VARCHAR(40);

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```
## 1 Messages  2 Table Data  3 Info

1 queries executed, 1 success, 0 errors, 0 warnings

Query: ALTER TABLE student MODIFY COLUMN sname VARCHAR(40)

0 row(s) affected

Execution Time: 0.017 sec

Transfer Time: 1.011 sec

Total Time: 1.029 sec
```

2) Create trigger to insert data in emp_log table whenever any update of sal in EMP table. You can set action as 'New Salary'.

```
Ans. DELIMITER $$

CREATE TRIGGER after_sal_update

AFTER UPDATE ON emp

FOR EACH ROW

BEGIN

IF NEW.sal <> OLD.sal THEN

INSERT INTO emp_log (empno, ACTION, old_sal, new_sal, update_time)

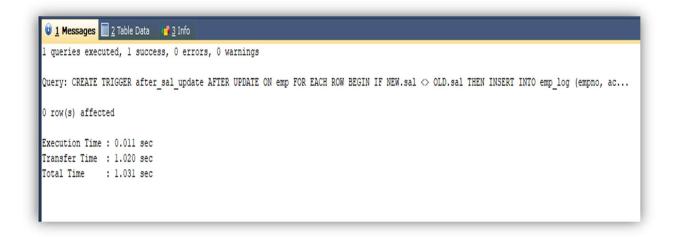
VALUES (NEW.empno, 'New Salary', OLD.sal, NEW.sal, NOW());

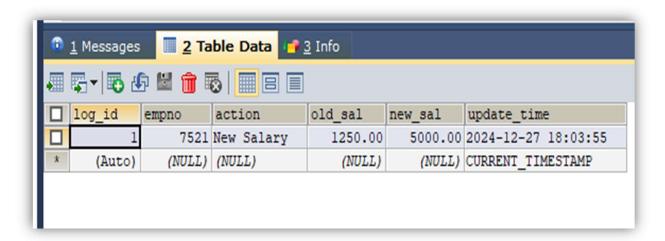
END IF;

END $$

DELIMITER;
```

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.....End.....