25 SQL QUERIES

Query 1: Write a query to display name, job, hiredate and employee number for each employee with employee number appearing first.

Answer

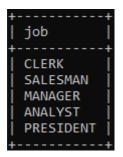
SELECT empno, ename, job, hiredate FROM emp;

+		- 	++
empno	ename	job	hiredate
7369 7499 7521 7566 7654 7698 7782 7788 7839	SMITH SMITH ALLEN WARD JONES MARTIN BLAKE CLARK SCOTT KING	CLERK SALESMAN SALESMAN MANAGER SALESMAN MANAGER MANAGER MANAGER ANALYST PRESIDENT SALESMAN	1980-12-17 1981-02-20 1981-02-22 1981-04-02 1981-09-28 1981-05-01 1981-06-09 1982-12-09 1981-11-17
7844 7876 7900 7902 7934	TORNER ADAMS JAMES FORD MILLER	SALESMAN CLERK CLERK ANALYST CLERK	1981-09-08 1983-01-12 1981-12-03 1981-12-03 1982-01-23

Query 2: Write a query to display unique jobs from the employee table.

Answer

SELECT DISTINCT job FROM emp;



Query 3: Write a query to display name concatenated by a job separated by a comma.

Answer

SELECT CONCAT(ename, ", ", job) FROM emp;

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concat(ename, ", ", job) |

SMITH, CLERK

ALLEN, SALESMAN

WARD, SALESMAN

JONES, MANAGER

MARTIN, SALESMAN

BLAKE, MANAGER

CLARK, MANAGER

SCOTT, ANALYST

KING, PRESIDENT

TURNER, SALESMAN

ADAMS, CLERK

JAMES, CLERK

FORD, ANALYST

MILLER, CLERK
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Query 4: Write a query to display the name and salary of employees earning more than \$2850.

Answer

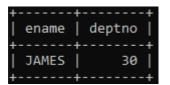
SELECT ename, sal FROM emp WHERE sal > 2850;

+	++
ename	sal
+	++
JONES	2975.00
SCOTT	3000.00
KING	5000.00
FORD	3000.00
+	++

Query 5: Write a query to display the name and department number for employee number 7900.

Answer

SELECT ename, deptno FROM emp WHERE empno = 7900;



Query 6: Write a query to display the name and salary of all employees whose salary is not in the range of \$1500 and \$2850.

Answer

SELECT ename, sal FROM emp WHERE sal NOT BETWEEN 1500 AND 2850;

+	++
ename	sal
+	++
SMITH	800.00
WARD	1250.00
JONES	2975.00
MARTIN	1250.00
SCOTT	3000.00
KING	5000.00
ADAMS	1100.00
JAMES	950.00
FORD	3000.00
MILLER	1300.00
+	++

Query 7: Write a query to display the name and department number of all employees in departments 10 and 30 in alphabetical order by name.

Answer

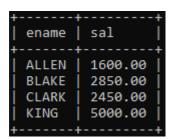
SELECT ename, deptno FROM emp WHERE deptno = 10 OR deptno = 30 ORDER BY ename;

+ ename	deptno
ALLEN BLAKE CLARK	30 30 30 10
JAMES KING MARTIN	30 10 30
MILLER TURNER WARD	10 30 30
+	++

Query 8: Write a query to display the name and salary of employees who earned more than \$1500 and are in department number 10 or 30.

Answer

SELECT ename, sal FROM emp WHERE sal > 1500 AND (deptno = 10 OR deptno = 30);



Query 9: Write a query to display the name and hire date of every employee who was hired in 1981.

Answer

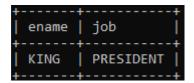
SELECT ename, hiredate FROM emp WHERE hiredate LIKE "1981%";

+ ename	hiredate
ALLEN	1981-02-20
WARD	1981-02-22
JONES	1981-04-02
MARTIN	1981-09-28
BLAKE	1981-05-01
CLARK	1981-06-09
KING	1981-11-17
TURNER	1981-09-08
JAMES	1981-12-03
FORD	1981-12-03

Query 10: Write a query to display the name and job of all employees who do not have a manager.

Answer

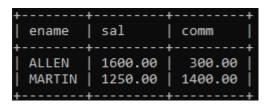
SELECT ename, job FROM emp WHERE mgr IS NULL;



Query 11: Write a query to display the name, salary and commission for all employees who earn commission. Sort the data in descending order of salary.

Answer

SELECT ename, sal, comm FROM emp WHERE (comm IS NOT NULL) AND (comm <> 0.00) ORDER BY sal DESC;



Query 12: Write a query to display the names of all employees where the third letter of their name is A.

Answer

SELECT ename FROM emp WHERE ename LIKE " A%";



Query 13: Write a query to display the names of all employees that have two R's or A's in their name and are in department number 30 or their manager is 7788.

Answer

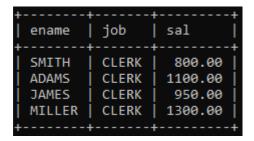
SELECT ename FROM emp WHERE ((ename LIKE "%A%A%" OR ename LIKE "%R%R%") AND deptno = 30) OR mgr = 7788;



Query14. Write a query to display the name, job and salary of all employees whose job is clerk or analyst, and their salary are not equal to 1000, 3000 or 5000.

Answer

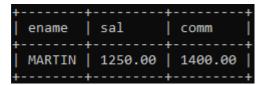
SELECT ename, job, sal FROM emp WHERE (job = "clerk" OR job = "analyst") AND (sal NOT IN (1000, 3000, 5000));



Query15. Write a query to display the name, salary and commission of all employees whose commission amount is greater than their salary increased by 5%.

Answer

SELECT ename, sal, comm FROM emp WHERE comm > sal * 1.05;



Query16. Write a query to display a current date.

Answer

SELECT CURDATE();

SELECT CURRENT TIMESTAMP;

```
+----+
| CURRENT_TIMESTAMP |
+-----+
| 2023-10-12 18:22:43 |
+-----
```

SELECT CURRENT TIMESTAMP();

```
+-----+
| CURRENT_TIMESTAMP() |
+-----+
| 2023-10-12 18:22:49 |
+-----
```

SELECT CURRENT TIMESTAMP FROM DUAL;

```
+----+
| CURRENT_TIMESTAMP |
+-----+
| 2023-10-12 18:23:01 |
+-----
```

Query17. Write a query to display employee number, name, salary, salary increased by 15% expressed as a whole number.

Answer

SELECT empno, ename, sal, (sal * 1.15) AS aggr sal FROM emp;

+ empno	ename	+ sal	++ aggr_sal
7369 7499 7521 7566	SMITH ALLEN WARD JONES	800.00 1600.00 1250.00 2975.00	920.0000 1840.0000 1437.5000 3421.2500
7654 7698 7782	MARTIN BLAKE CLARK SCOTT	1250.00 2850.00 2450.00 3000.00	1437.5000 3277.5000 2817.5000 3450.0000
7839 7844 7876	KING TURNER ADAMS	5000.00 5000.00 1500.00 1100.00	5750.0000 5750.0000 1725.0000
7900 7902 7934 +	JAMES FORD MILLER +	950.00 3000.00 1300.00	1092.5000 3450.0000 1495.0000

Query18. Write a query to display the employee number, name, salary, salary increased by 15% expressed as a whole number and increase in salary.

Answer

SELECT empno, ename, sal, (sal * 1.15) AS aggr_sal, ((sal * 1.15) -sal) AS
incr sal FROM emp;

+	+	+	+	++
empno	ename	sal	aggr_sal	incr_sal
+	+		 	++
7369	SMITH	800.00	920.0000	120.0000
7499	ALLEN	1600.00	1840.0000	240.0000
7521	WARD	1250.00	1437.5000	187.5000
7566	JONES	2975.00	3421.2500	446.2500
7654	MARTIN	1250.00	1437.5000	187.5000
7698	BLAKE	2850.00	3277.5000	427.5000
7782	CLARK	2450.00	2817.5000	367.5000
7788	SCOTT	3000.00	3450.0000	450.0000
7839	KING	5000.00	5750.0000	750.0000
7844	TURNER	1500.00	1725.0000	225.0000
7876	ADAMS	1100.00	1265.0000	165.0000
7900	JAMES	950.00	1092.5000	142.5000
7902	FORD	3000.00	3450.0000	450.0000
7934	MILLER	1300.00	1495.0000	195.0000
+	+	+	+	++

Query19.Write a query to display the following for each employee: -

<ename> earns <salary> monthly but wants <3 times salary>. Label the column
as Dream Salary.

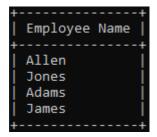
Answer

SELECT CONCAT(ename, " earns ", sal, " but wants ", 3 * sal) AS "Dream
Salary" FROM emp;

Query20.Write a query to display the employees name with the first letter capitalized and all other letters lower case and length of their name for all employees whose name start with J, A and M.

Answer

SELECT CONCAT (UPPER (SUBSTRING (ename, 1, 1)), LOWER (SUBSTRING (ename, 2))) AS "Employee Name" FROM emp WHERE (ename LIKE "J * " OR ename LIKE "A * " OR ename LIKE "R * ");



Query21. Write a query to display the name, department name, department number for all employees.

Answer

SELECT e.ename AS "Employee Name", d.dname AS "Department Name", d.deptno AS "Department Number" FROM emp e JOIN dept e ON e.deptno = d.deptno;

Employee Name	Department Name	Department Number
SMITH	RESEARCH	20
ALLEN	SALES	30
WARD	SALES	30
JONES	RESEARCH	20
MARTIN	SALES	30
BLAKE	SALES	30
CLARK	ACCOUNTING	10
SCOTT	RESEARCH	20
KING	ACCOUNTING	10
TURNER	SALES	30
ADAMS	RESEARCH	20
JAMES	SALES	30
FORD	RESEARCH	20
MILLER	ACCOUNTING	10
+		++

Query22. Write a query that displays the unique listing of all jobs that are in department 30.

Answer

SELECT DISTINCT job FROM emp WHERE deptno = 30;



Query23. Write a query to display the employee name, department name and location for all employees who earn a commission.

Answer

SELECT e.ename AS "Employee Name", d.dname AS "Department Name", d.loc AS "Department Location" FROM emp e JOIN dept d ON e.deptno = d.deptno;

+		++
Employee Name	Department Name	Department Location
+		++
SMITH	RESEARCH	DALLAS
ALLEN	SALES	CHICAGO
WARD	SALES	CHICAGO
JONES	RESEARCH	DALLAS
MARTIN	SALES	CHICAGO
BLAKE	SALES	CHICAGO
CLARK	ACCOUNTING	NEW YORK
SCOTT	RESEARCH	DALLAS
KING	ACCOUNTING	NEW YORK
TURNER	SALES	CHICAGO
ADAMS	RESEARCH	DALLAS
JAMES	SALES	CHICAGO
FORD	RESEARCH	DALLAS
MILLER	ACCOUNTING	NEW YORK
+		++

Query24. Write a query to display the employee name and department name for all employees who have 'A' in their name.

Answer

SELECT e.ename AS "Employee Name", d.dname AS "Department Name" FROM emp e JOIN dept d ON e.deptno = d.deptno WHERE e.ename LIKE "%A%";

+ Employee Name	Department Name
ALLEN	SALES
WARD	SALES
MARTIN	SALES
BLAKE	SALES
CLARK	ACCOUNTING
ADAMS	RESEARCH
JAMES	SALES
+	++

Query25. Write a query to display the name, job, department number and department name for all employees who work at location DALLAS.

Answer

SELECT e.ename AS "Employee Name", e.job AS "Job", d.deptno AS "Department Number", d.dname AS "Department Name" FROM emp e JOIN dept d ON e.deptno = d.deptno WHERE d.loc = "DALLAS";

+ Employee Name	Job	Department Number	Department Name
SMITH JONES SCOTT ADAMS FORD	CLERK MANAGER ANALYST CLERK ANALYST	20 20 20 20 20	RESEARCH RESEARCH RESEARCH RESEARCH RESEARCH