1.

SELECT department, job, MAX(hire\_date) AS most\_senior\_hire\_date

FROM employees

GROUP BY department, job

ORDER BY most\_senior\_hire\_date DESC;

2.SELECT CONCAT(

TO\_CHAR(NOW(), 'Day'),

' ',

TO\_CHAR(NOW(), 'HH12:MI:SS')

) AS "Day and Time";

3.SELECT

name,

salary,

CASE

WHEN department = 10 THEN salary + 1000

WHEN department = 20 THEN salary + 2000

ELSE salary + 3000

END AS dream\_salary

FROM employees

ORDER BY dream\_salary ASC;

4.SELECT

CASE

WHEN (YEAR('2016-01-01') % 4 = 0 AND YEAR('2016-01-01') % 100 != 0) OR (YEAR('2016-01-01') % 400 = 0) THEN 'Leap Year'

ELSE 'Not a Leap Year'

END AS year\_type;

5.SELECT name, job

FROM employees

WHERE job IN ('manager', 'clerk', 'analyst');

6.SELECT name

FROM employees

WHERE name LIKE '%M%';

7.SELECT TRIM('0' FROM '00abc000') AS trimmed\_string;

SUBQUERY

1.SELECT name

FROM employees

WHERE join\_date > (SELECT join\_date FROM employees WHERE name = 'KING');

2.SELECT name

FROM employees

WHERE salary > ALL (SELECT salary FROM employees WHERE job = 'CLERK');

3.SELECT name

FROM employees

WHERE salary > ANY (SELECT salary FROM employees WHERE job = 'CLERK');

4.SELECT name

FROM employees

WHERE salary > (SELECT salary FROM employees WHERE name = 'SMITH');

JOINING

1.SELECT name

FROM employees

WHERE department = 'DALLAS';

2.SELECT e.name

FROM employees e

WHERE e.hire\_date < (SELECT m.hire\_date FROM employees m WHERE e.manager\_id = m.employee\_id);

3.SELECT e.name, IFNULL(m.name, 'NO MANAGER') AS manager

FROM employees e

LEFT JOIN employees m ON e.manager\_id = m.employee\_id;

4.SELECT e.name, e.department, d.department\_name

FROM employees e

LEFT JOIN departments d ON e.department = d.department\_number;