

과정명	안동대 스마트팩토리	과목명	SQL	평가일	2024.07.29
훈련생		점수		평가자	하성호

문 항	<p>[OPENBOOK TEST]</p> <p>1. 오라클 처음 접속 후 hr 계정을 만들려면 어떻게 해야 하나요?</p> <p>1-1 관리자 계정 접속 쿼리 : (CONN SYSTEM)</p> <p>1-2 연습용 계정 열기 쿼리 : (ALTER USER hr ACCOUNT UNLOCK)</p> <p>2. 오라클 처음 접속 후 scott 계정의 비밀번호를 scott로 재지정 하려면 어떻게 해야 하나요?</p> <p>비밀번호 변경 쿼리 : (CREATE USER scott IDENTIFIED BY tiger)</p> <p>scott 계정에 CONNECT,RESOURCE,UNLIMITED TABLESPACE 3가지 권한을 주는 쿼리</p> <p>(GRANT CONNECT,RESOURCE,UNLIMITED TABLESPACE TO SCOTT);</p> <p>3. (p125 연습문제 - Q1) EMP 테이블을 사용하여 사원 이름(ENAME)이 S로 끝나는 사원 데이터를 모두 출력</p> <p>하는 SQL문을 작성해 보세요.</p> <p>SELECT * FROM EMP WHERE ENAME LIKE '%S';</p> <p>4. (p125 연습문제 - Q2) EMP 테이블을 사용하여 30번 부서에서 근무하고 있는 사원 중에 직책이 SALESMAN인</p> <p>사원의 사원번호, 이름, 직책, 급여, 부서번호를 출력하는 SQL문을 작성해 보세요.</p> <p>SELECT EMPNO, ENAME, JOB, SAL, DEPTNO FROM EMP WHERE DEPTNO = 30 AND JOB = 'SALESMAN';</p> <p>5. (p125 연습문제 - Q3)</p> <p>-- 집합연산자를 사용하지 않은 방식</p> <p>SELECT EMPNO, ENAME, JOB, SAL, DEPTNO FROM EMP WHERE DEPTNO IN (20, 30) AND SAL > 2000;</p>
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```
-- 집합연산자를 사용한 방식
SELECT EMPNO, ENAME, JOB, SAL, DEPTNO
  FROM EMP
 WHERE DEPTNO = 20
    AND SAL > 2000
UNION
SELECT EMPNO, ENAME, JOB, SAL, DEPTNO
  FROM EMP
 WHERE DEPTNO = 30
    AND SAL > 2000;
```

6. (p126 연습문제 - Q4)

```
SELECT *
  FROM EMP
 WHERE SAL < 2000
    OR SAL > 3000;
```

7. (p126 연습문제 - Q5)

```
SELECT ENAME, EMPNO, SAL, DEPTNO
  FROM EMP
 WHERE DEPTNO = 30
    AND ENAME LIKE '%E%'
    AND SAL NOT BETWEEN 1000 AND 2000;
```

8. (p126 연습문제 - Q6)

```
SELECT *
  FROM EMP
 WHERE COMM IS NULL
    AND MGR IS NOT NULL
    AND JOB IN ('MANAGER', 'CLERK')
    AND ENAME NOT LIKE '_L%';
```

9. (p174 연습문제 - Q1)

```
SELECT EMPNO,
       RPAD(SUBSTR(EMPNO, 1, 2), 4, '*') AS MASKING_EMPNO,
       ENAME,
       RPAD(SUBSTR(ENAME, 1, 1), LENGTH(ENAME), '*') AS MASKING_ENAME
  FROM EMP
 WHERE LENGTH(ENAME) >= 5
    AND LENGTH(ENAME) < 6;
```

10. (p174 연습문제 – Q2)

```
SELECT EMPNO, ENAME, SAL,  
       TRUNC(SAL / 21.5, 2) AS DAY_PAY,  
       ROUND(SAL / 21.5 / 8, 1) AS TIME_PAY  
FROM EMP;
```

11. (p175 연습문제 – Q3)

```
SELECT EMPNO, ENAME, HIREDATE,  
       TO_CHAR(NEXT_DAY(ADD_MONTHS(HIREDATE, 3), '월요일'), 'YYYY-MM-DD') AS R_JOB,  
       NVL(TO_CHAR(COMM), 'N/A') AS COMM  
FROM EMP;
```

12. (p175 연습문제 – Q4)

```
SELECT EMPNO, ENAME, MGR,  
       CASE  
         WHEN MGR IS NULL THEN '0000'  
         WHEN SUBSTR(MGR, 1, 2) = '78' THEN '8888'  
         WHEN SUBSTR(MGR, 1, 2) = '77' THEN '7777'  
         WHEN SUBSTR(MGR, 1, 2) = '76' THEN '6666'  
         WHEN SUBSTR(MGR, 1, 2) = '75' THEN '5555'  
         ELSE TO_CHAR(MGR)  
       END AS CHG_MGR  
FROM EMP;
```

13. (p212 연습문제 – Q1)

```
SELECT DEPTNO,  
       TRUNC(AVG(SAL)) AS AVG_SAL,  
       MAX(SAL) AS MAX_SAL,  
       MIN(SAL) AS MIN_SAL,  
       COUNT(*) AS CNT  
FROM EMP  
GROUP BY DEPTNO;
```

14. (p212 연습문제 – Q2)

```
SELECT JOB,  
       COUNT(*)  
FROM EMP  
GROUP BY JOB  
HAVING COUNT(*) >= 3;
```

15. (p212 연습문제 – Q3)

```
SELECT TO_CHAR(HIREDATE, 'YYYY') AS HIRE_YEAR,  
       DEPTNO,  
       COUNT(*) AS CNT  
FROM EMP  
GROUP BY TO_CHAR(HIREDATE, 'YYYY'), DEPTNO;
```

16. (p213 연습문제 – Q4) 추가 수당(Comm)을 받는 사원 수와 받지 않는 사원 수를 출력하세요.

```
SELECT NVL2(COMM, '0', 'X') AS EXIST_COMM, COUNT(*) AS CNT  
FROM EMP  
GROUP BY NVL2(COMM, '0', 'X');
```

17. (p239 연습문제 – Q1)

-- SQL-99 이전 방식

```
SELECT D.DEPTNO, D.DNAME, E.EMPNO, E.ENAME, E.SAL  
FROM EMP E, DEPT D  
WHERE E.DEPTNO = D.DEPTNO  
AND E.SAL > 2000;
```

-- SQL-99 방식

```
SELECT DEPTNO, D.DNAME, E.EMPNO, E.ENAME, E.SAL  
FROM EMP E NATURAL JOIN DEPT D  
WHERE E.SAL > 2000;
```

18. (p239 연습문제 – Q2)

```
SELECT D.DEPTNO,  
       D.DNAME,  
       TRUNC(AVG(SAL)) AS AVG_SAL,  
       MAX(SAL) AS MAX_SAL,  
       MIN(SAL) AS MIN_SAL,  
       COUNT(*) AS CNT  
FROM EMP E, DEPT D  
WHERE E.DEPTNO = D.DEPTNO  
GROUP BY D.DEPTNO, D.DNAME;
```

--SQL-99 방식

```
SELECT DEPTNO,  
       D.DNAME,  
       TRUNC(AVG(SAL)) AS AVG_SAL,  
       MAX(SAL) AS MAX_SAL,  
       MIN(SAL) AS MIN_SAL,  
       COUNT(*) AS CNT  
FROM EMP E JOIN DEPT D USING (DEPTNO)  
GROUP BY DEPTNO, D.DNAME;
```

19. (p239 연습문제 – Q3)

--SQL-99 이전 방식

```
SELECT D.DEPTNO, D.DNAME, E.EMPNO, E.ENAME, E.JOB, E.SAL  
FROM EMP E, DEPT D  
WHERE E.DEPTNO(+) = D.DEPTNO  
ORDER BY D.DEPTNO, E.ENAME;
```

--SQL-99 방식

```
SELECT D.DEPTNO, D.DNAME, E.EMPNO, E.ENAME, E.JOB, E.SAL  
FROM EMP E RIGHT OUTER JOIN DEPT D ON (E.DEPTNO = D.DEPTNO)  
ORDER BY D.DEPTNO, E.ENAME;
```

20. (p262 연습문제 – Q1) ALLEN과 같은 직책(JOB)인 직원들의 사원 정보, 부서 정보를 출력하세요.

```
SELECT E.JOB, E.EMPNO, E.ENAME, E.SAL, E.DEPTNO, D.DNAME  
FROM EMP E, DEPT D  
WHERE E.DEPTNO = D.DEPTNO  
AND JOB = (SELECT JOB  
           FROM EMP  
           WHERE ENAME = 'ALLEN');
```

21. (p263 연습문제 – Q3)

```
SELECT E.EMPNO, E.ENAME, E.JOB, E.DEPTNO, D.DNAME, D.LOC  
FROM EMP E, DEPT D  
WHERE E.DEPTNO = D.DEPTNO  
AND E.DEPTNO = 10  
AND JOB NOT IN (SELECT DISTINCT JOB  
               FROM EMP  
               WHERE DEPTNO = 30);
```

22. (p263 연습문제 – Q4)

-- 다중행 함수 사용하지 않는 방법

```
SELECT E.EMPNO, E.ENAME, E.SAL, S.GRADE
FROM EMP E, SALGRADE S
WHERE E.SAL BETWEEN S.LOSAL AND S.HISAL
AND SAL > (SELECT MAX(SAL)
           FROM EMP
           WHERE JOB = 'SALESMAN')
ORDER BY E.EMPNO;
```

-- 다중행 함수 사용하는 방법

```
SELECT E.EMPNO, E.ENAME, E.SAL, S.GRADE
FROM EMP E, SALGRADE S
WHERE E.SAL BETWEEN S.LOSAL AND S.HISAL
AND SAL > ALL (SELECT DISTINCT SAL
               FROM EMP
               WHERE JOB = 'SALESMAN')
ORDER BY E.EMPNO;
```

23. (p287 연습문제 – Q1)

```
INSERT INTO CHAP10HW_DEPT (DEPTNO, DNAME, LOC) VALUES (50, 'ORACLE', 'BUSAN');
INSERT INTO CHAP10HW_DEPT (DEPTNO, DNAME, LOC) VALUES (60, 'SQL', 'ILSAN');
INSERT INTO CHAP10HW_DEPT (DEPTNO, DNAME, LOC) VALUES (70, 'SELECT', 'INCHEON');
INSERT INTO CHAP10HW_DEPT (DEPTNO, DNAME, LOC) VALUES (80, 'DML', 'BUNDANG');
```

24. (p324 연습문제 – Q1)

```
CREATE TABLE EMP_HW (
    EMPNO    NUMBER(4),
    ENAME    VARCHAR2(10),
    JOB      VARCHAR2(9),
    MGR      NUMBER(4),
    HIREDATE DATE,
    SAL      NUMBER(7, 2),
    COMM     NUMBER(7, 2),
    DEPTNO   NUMBER(2)
);
```

25. (p324 연습문제 – Q2)

```
ALTER TABLE EMP_HW  
ADD BIGO VARCHAR2(20);
```

26. (p324 연습문제 – Q3)

```
ALTER TABLE EMP_HW  
MODIFY BIGO VARCHAR2(30);
```

27. (p324 연습문제 – Q4)

```
ALTER TABLE EMP_HW  
RENAME COLUMN BIGO TO REMARK;
```

29. (p325 연습문제 – Q5)

```
INSERT INTO EMP_HW  
SELECT EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, DEPTNO, NULL  
FROM EMP;
```

30. (p325 연습문제 – Q4) EMP_HW 테이블을 삭제하기 위한 쿼리를 작성하세요.

```
DROP TABLE EMP_HW;
```