

1. CREATE TABLE EMP(  
EMP\_ID INT PRIMARY KEY,  
FIRST\_NAME VARCHAR(20) NOT NULL,  
LAST\_NAME VARCHAR(20) NOT NULL,  
HIRE\_DATE DATE NOT NULL,  
JOB\_ID VARCHAR(15) NOT NULL,  
SAL DECIMAL (10, 2) CHECK (SAL >= 10),  
DEPT\_ID INT NOT NULL  
);
2. INSERT INTO EMP VALUES  
(108, 'Donald', 'Connell', '1999-06-21', 'SH-CLERK', 2600, 50),  
(109, 'Douglas', 'Gnand', '1998-01-13', 'SH-CLERK', 3000, 50),  
(200, 'Jennifer', 'Whalen', '1987-09-17', 'AD-ASST', 4000, 10),  
(201, 'Michael', 'Hantstein', '1999-01-19', 'IT-PROG', 6000, 20),  
(202, 'Pat', 'Fay', '1989-10-25', 'AC-MGR', 6500, 20),  
(203, 'Susan', 'Marris', '1976-11-26', 'AD-VP', 7500, 40),  
(204, 'Hermann', 'Baer', '1995-08-23', 'AD-PRES', 9500, 90),  
(205, 'Shelley', 'Higgins', '1998-02-24', 'AC-MGR', 2300, 60),  
(206, 'William', 'Gitz', '2001-03-12', 'IT-PROG', 5000, 60),  
(100, 'Steven', 'King', '2002-06-15', 'AD-ASST', 8950, 100),  
(101, 'Neena', 'Kochan', '2003-07-10', 'SH-CLERK', 3900, 30);
3. SELECT FIRST\_NAME AS 'Employee Name'  
FROM EMP ORDER BY FIRST\_NAME ASC;
4. SELECT FIRST\_NAME AS 'Employee Name'  
FROM EMP ORDER BY FIRST\_NAME DESC;

5. SELECT HIRE-DATE FROM EMP ORDER BY HIRE-DATE ASC;
6. SELECT \* FROM EMP  
WHERE FIRST-NAME LIKE 'J%' OR  
FIRST-NAME LIKE 'M%'  
ORDER BY LAST-NAME;
7. SELECT MAX(SAL) AS MAX, MIN(SAL) AS min, AVG(SAL)  
AS Avg, SUM(SAL) AS sum FROM EMP;
8. SELECT JOB-ID, MAX(SAL) AS Max,  
MIN(SAL) AS Min, AVG(SAL) AS Avg,  
SUM(SAL) AS sum  
FROM EMP GROUP BY JOB-ID;
9. SELECT JOB-ID, COUNT(\*) AS 'No. of Employees'  
FROM EMP GROUP BY JOB-ID;
10. SELECT COUNT(\*) AS 'Managers Count'  
FROM EMP WHERE JOB-ID LIKE '%MANAGER';
11. SELECT (MAX(SAL) - MIN(SAL)) AS  
'Salary Difference' FROM EMP;
12. SELECT MAX(SAL) AS max-salary,  
AVG(SAL) AS Avg-salary FROM EMP WHERE  
JOB-ID = 'IT-PROG';
13. SELECT  
(SELECT FIRST-NAME FROM EMP ORDER BY  
FIRST-NAME ASC LIMIT 1) AS First-Name,  
(SELECT FIRST-NAME FROM EMP ORDER BY  
FIRST-NAME DESC LIMIT 1) AS Last-Name;
14. SELECT MIN(HIRE-DATE) AS 'First Hire-Date',  
MAX(HIRE-DATE) AS 'Last Hire-Date' FROM EMP;
15. SELECT MAX(SAL) AS max-salary,  
AVG(SAL) AS Avg-salary FROM EMP WHERE  
JOB-ID LIKE '%CLERK';

16. SELECT DEPT-ID, MIN(SAL) AS  
'Min-Salary' FROM EMP GROUP BY DEPT-ID;
17. SELECT DEPT-ID, MIN(SAL) AS 'Min-Salary'  
FROM EMP GROUP BY DEPT-ID HAVING MIN(SAL)>3000  
ORDER BY Min-Salary DESC;
18. SELECT CONCAT(FIRST-NAME, 'whose designation is',  
JOB-ID, 'gets', SAL, 'but wants to earn', 3\*SAL)  
AS Details  
FROM EMP;
19. SELECT CONCAT(EMP-ID, ', ', FIRST-NAME,  
, LAST-NAME, ', ', DATE-FORMAT(HIRE-DATE,  
'%d-%b-%y'), ', ', JOB-ID, ', ', SAL, ', ',  
DEPT-ID) AS Employee-Details  
FROM EMP;
20. SELECT CURDATE() AS TODAY;
21. SELECT EMP-ID, DAY(HIRE-DATE) AS Day-Hired,  
YEAR(HIRE-DATE) AS Year-Hired FROM EMP;
22. SELECT CONCAT(FIRST-NAME, ', ', LAST-NAME) AS  
Name,  
DATE-FORMAT(HIRE-DATE, '%d-%m-%y') AS  
Hire-Date FROM EMP;
23. SELECT EMP-ID, MONTHNAME(HIRE-DATE) AS  
Month-Hired FROM EMP;
24. SELECT CONCAT(FIRST-NAME, ', ', LAST-NAME)  
AS Name, EMP-ID, DATE-FORMAT(HIRE-DATE,  
'%d-%b-%y') AS Hire-Date FROM EMP;
25. SELECT CONCAT(FIRST-NAME, ', ', LAST-NAME) AS  
Name, EMP-ID, DATE-FORMAT(HIRE-DATE, '%m-%d-%y)  
AS Hire-Date FROM EMP;

26. SELECT DATE\_FORMAT(CURDATE(), '%y') AS  
Numenical\_Year;  
-- (To spell out fully, convert manually or via app logic)

27. SELECT  
DATE\_ADD(CURDATE(), INTERVAL 15 DAY)  
AS '15 Days After'  
DATE\_SUB(CURDATE(), INTERVAL 15 DAY)  
AS '15 Days Before';

28. ALTER TABLE EMP DROP CHECK SAL;  
ALTER TABLE EMP DROP PRIMARY KEY;

29. DROP TABLE EMP;

✓ Ash 03/11/25