

Assignment : 6  
 Create a Table Emp with following structure.

E-Id	F-name	L-name	Hire Date	Job-Id	Sal	Dept-Id
PK	NOT NULL	NOTNULL	NOTNULL	NOTNULL	NOTNULL	should be greater or equal

Emp-Id	F-name	L-name	Hire date	Job-Id	Sal	Dept-Id
198	Donald	Connell	21-Jun-99	Sh-clerk	2600	50
199	Douglas	Cumant	13-Jan-98	Sh-clerk	3000	50
200	Jennifer	Whalen	17-Aug-87	Ad-ant	1400	10
201	Michael	Hauslein	15-Jan-99	IT-Prog	6000	20
202	Pat	Fay	25-Oct-85	Ac-mgr	6500	20
203	Susan	Mavris	26-Nov-76	Ad-vp	7500	40
204	Hueman	Baer	23-Aug-95	Ad-pru	9500	90
205	Shelley	Higgins	24-Feb-98	Ac-mgr	2300	60
206	William	Gutz	12-May-01	IT-prog	5000	60
100	Steven	King	15-Jun-02	Ad-ant	8956	100
101	Nuna	Kochan	10-Jul-03	Sh-clerk	3400	30

Create TABLE EMP (

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EId INT Primary Key ,
F-name varchar(20) NOT NULL ,
L-name varchar(20) NOT NULL ,
HireDate Date NOT NULL ,
Job-Id varchar(20) NOT NULL ,
Sal int NOT NULL ,
Dept-Id int check (Dept-Id >=10)
    
```

);

INSERT INTO EMP (Emp-Id, F-name, L-name, Hire-date, Job-Id, Sal.)

VALUES

('198', 'Donald', 'Connell', '25-Jun-95', 'Sh-clerk', '2600', '50'),  
('199', 'Douglas', 'Currant', '13-Jan-98', 'Sh-clerk', '3000', '50'),  
('200', 'Jennifer', 'Whalen', '17-Sep-87', 'Ad-Amt', '4400', '10'),  
('201', 'Michael', 'Haerlein', '19-Jan-99', 'IT-prog', '6000', '20'),  
('202', 'Pat', 'Fay', '25-Oct-89', 'Ac-mgr', '6500', '20'),  
('203', 'Susan', 'Mavris', '26-Nov-78', 'Ad-vp', '7500', '40'),  
('204', 'Human', 'Bailey', '28-Aug-95', 'Ad-pres', '9500', '90'),  
('206', 'William', 'Gitz', '12-May-01', 'IT-prog', '5000', '60'),  
('205', 'Shelley', 'Higgins', '24-May-01', 'Ac-mgr', '2300', '60'),  
('100', 'Steven', 'King', '15-Jun-02', 'Ad-Amt', '8956', '100'),  
('101', 'Neena', 'Kochan', '10-Jul-08', 'Sh-clerk', '3400', '90');

Display the F-name of all employees in ascending order. Give appropriate alias name to the columns.

• SELECT F-name AS

"Employee - First - Name"  
FROM EMP  
ORDER BY F-name ASC;

Display the F-name of all employees in descending order. Give appropriate alias name to the columns.

• SELECT F-name AS

"Employee - First - Name"  
FROM EMP  
ORDER BY F-name DESC;

Display the hire date of all employees in ascending order.

• SELECT Hire-date  
FROM EMP  
ORDER BY Hire-date ASC,

5. Display the employee details whose fname starts with either Tom or John by employee lname.
- SELECT \* FROM EMP  
WHERE F-name LIKE 'T%' OR F-name LIKE 'J%'  
ORDER BY L-name ASC ;
6. Find the Highest, Lowest, average and sum of salary of all employees. Give alias name to all the columns as 'Max', 'Min', 'Avg', 'Sum' respectively.
- SELECT  
MAX(Sal) AS "MAX",  
MIN(Sal) AS "MIN",  
AVG(Sal) AS "AVG",  
SUM(Sal) AS "SUM",  
FROM EMP ;
7. Find the highest, lowest, average and sum of salary of all employees of each individual job type.
- ```
SELECT Job-Id  
MAX(Sal) AS max-salary ,  
MIN(Sal) AS min-salary ,  
AVG(Sal) AS avg-salary ,  
SUM(Sal) AS Total-salary .  
FROM EMP  
GROUP BY Job-Id ;
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8. Display the number of people under each job .
- SELECT Job-Id  
COUNT(\*) AS Total-Employees  
FROM EMP  
GROUP BY Job-Id ;
9. Display the number of managers in the company without listing their emp-id or names .
- SELECT  
COUNT(\*) AS TOTAL-MANAGERS  
FROM EMP  
WHERE Job-Id LIKE '% Mgr%' ;

10. find the difference between higher and the lowest salaries .  
• SELECT  
MAX(SAL) - MIN(SAL) AS  
Salary - Difference  
FROM EMP ;
11. Display the maximum and average salary of the engineers .  
• SELECT  
MAX(SAL) AS max-salary ,  
AVG(SAL) AS avg-salary .  
FROM EMP  
WHERE JOB-ID = 'IT-PROG' ;
12. Display the employee fname that is first and the employee fname  
that is last in the alphabetized list of all employees .  
• SELECT \* FROM EMP ;  
WHERE  
MIN(F-name) AS Fname ;  
MAX(F-name) AS L-name ;
13. Display the date when the first employee was hired and last  
date of hiring of the employees . Rename the column as 'First  
hire-date' and 'Last hire-date' .  
• SELECT \* FROM EMP ;  
WHERE  
MIN(Hire-date) AS "First-Hire Date" ,  
MAX(Hire-date) AS "Last-Hire Date" ;
14. Display the maximum and average salary of the clerk .  
• SELECT \* FROM EMP ;  
MAX(SAL) AS max-salary ,  
AVG(SAL) AS avg-salary ,  
WHERE JOB-ID LIKE '%.clerk' ;
15. Display the dept no. and the salary of the lowest paid employee for each  
department . Give an alias name to the minimum salary column .  
• SELECT Dept-Id ,  
MIN(SAL) AS Minimum-salary  
FROM EMP  
GROUP BY Dept-Id ;

16. Display the dept. no. and the salary of the lowest paid employee for each department. Exclude any group where the minimum salary is 3000 or less. Start output in descending order of salary.
- SELECT Dept-Id,  
MIN(SAL) AS Minimum-Salary  
FROM EMP  
GROUP BY Dept-Id  
HAVING MIN(SAL) > 3000 OR < 3000  
ORDER BY Minimum-Salary DESC;
17. Display the following for all rows of the table : < first-name > whose designation is < Job-Id > get < salary > But wants to earn < 3 \* salary >.
- SELECT CONCAT(F-name, 'whose designation is ', Job-Id,  
'get ', SAL, 'but wants to earn', 3 \* SAL)  
AS Info  
FROM EMP;
18. X Display the details of all employees in the following format :  
198, Donald, Connell, 21-Jun-99, Sh-dept, 2600, 50 .
- SELECT CURDATE() AS TODAY ;
- Output : 2025-11-02 .
19. Display today's date Rename the column as TODAY .
- SELECT CURDATE() AS TODAY ;
20. Display the Employee. id , the day and the year in which the employees were hired .
- SELECT E-ID ,  
DAY(HIRE-DATE) ,  
YEAR(HIRE-DATE) ,  
FROM EMP ;

Display the employee name and the hire date of all employees in the format 'dd-month-yy'.

• SELECT F-name, L-name AS Employee-Name,  
TO-CHAR (Hire-Date, 'DD-Month-YY') AS Hire-Date  
FROM EMP ;

Display the employee-id, months in which the employees were hired.

• SELECT Emp-Id,  
TO-CHAR (HIRE-DATE, 'Month') AS  
HIRE-Month  
FROM EMP ;

Display the employee name, employee id and the hire date of all employees in the format 'month-dd-yyyy'.

• SELECT F-name, L-name AS Employee-Name, Emp-Id,  
TO-CHAR (Hire-Date, 'DD-Month-YYYY') AS Hire-Date  
FROM EMP ;

Display the employee name, employee id and the hire date of all employees in the format 'month-dd-yyyy'.

SELECT F-name, E-Id, Date-format (Hire-date, 'dd-mm-yyyy')  
AS Hire-Date  
FROM EMP ;

Display the system year in full spelling. (Ex - Nineteen Ninety Nine for 1999).

SELECT DATE-FORMAT (NOW(), '%Y') AS YEAR-NUMBER ;  
Output :

2025

Find date, 15 days after today's date, 15 days before today's date.

SELECT CURDATE() AS TODAY,  
DATE-ADD (CURDATE(), INTERVAL 15 DAY) AS  
After-15-day ,

Ensure the domain constraint and entity integrity constraint from the above table.

- ALTER TABLE EMP

MODIFY DEPT-ID CHECK (DEPT-ID >= 10);

ALTER TABLE EMP

ADD CONSTRAINT EMP-PK PRIMARY KEY  
(EMP-ID);

Drop the domain constraint from the table.

ALTER TABLE EMP

DROP CHECK (DEPT-ID >= 10);

Output :

0 row affected.

Drop the primary key from the table.

- ALTER TABLE EMP

DROP PRIMARY KEY;

Drop the created table.

- DROP TABLE EMP;

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Raj 03/11/28