Q&A Activity Question Week -13

Create a table as given below in MySQL. And write queries for the given statements.

Employee ID	Name	Gender	Department	Salary	DOB	Date of Joining
CP0123	Ann Mery	F	HR	45000	10/Oct/1989	1/Jan/2018
CP0087	Felix M	M	Finance	48000	12/Apr/1981	10/Dec/2000
CP0197	Merlin	M	CEO	80000	01/Mar/1990	10/May/2011
CP0213	Philip	M	Retail	47000	01/Apr/1991	11/June/2012
CP0243	Michael	M	Retail	40000	01/Dec/1992	30/May/2016
CP0289	Susan	F	Retail	40000	01/Jan/1991	01/Apr/2016
CP0298	Abram	M	Relations	30000	17/Apr/1994	06/OCt/2016
CP0300	Alia	F	Relations	30000	17/Oct/1995	18/OCt/2016
CP0321	Raichal	F	Marketing	34000	09/Oct/1990	22/OCt/2016
CP0276	Thomas	M	Marketing	44000	19/Nov/1983	22/OCt/2018

1. Write SQL queries to create the above table.

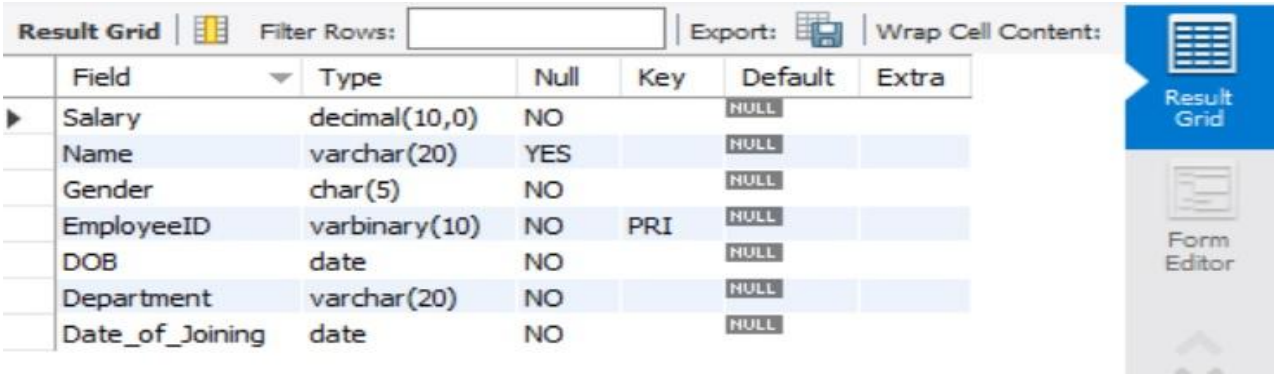
– Creating a database –
CREATE DATABASE company_db;

– Display the databases –
SHOW DATABASES;

– Selecting a database –
USE company_db;

– creating a table –
CREATE TABLE Employees (
EmployeeID VARCHAR(10) NOT NULL PRIMARY KEY,
Name VARCHAR(20), Gender CHAR(5) NOT NULL,
Department VARCHAR(20) NOT NULL, Salary DECIMAL NOT NULL,
DOB DATE NOT NULL, Date_of_Joining DATE NOT NULL);

– Display the Structure of the table –
DESCRIBE Employees;



– Insert the values into the table –
INSERT INTO Employees(
EmployeeID,Name,Gender,Department,Salary,DOB,Date_of_Joining) VALUES
('CP0123','Ann Mery','F','HR',45000,STR_TO_DATE('10/Oct/1989',
'%d/%M/%Y'),STR_TO_DATE('1/Jan/2018', '%d/%M/%Y')), ('CP0087',
'Felix','M','Finance',48000,STR_TO_DATE('12/Apr/1981',
'%d/%M/%Y'),STR_TO_DATE('10/Dec/2000', '%d/%M/%Y')), ('CP0197',

'Merlin','M','CEO',80000,STR_TO_DATE('01/Mar/1990',
'%d/%M/%Y'),STR_TO_DATE('10/May/2011', '%d/%M/%Y')), ('CP0213',
'Philip','M','Retail',47000,STR_TO_DATE('01/Apr/1991',
'%d/%M/%Y'),STR_TO_DATE('11/June/2012', '%d/%M/%Y')), ('CP0243',
'Michael','M','Retail',40000,STR_TO_DATE('01/Dec/1992',
'%d/%M/%Y'),STR_TO_DATE('30/May/2016', '%d/%M/%Y')), ('CP0289',
'Susan','F','Retail',40000,STR_TO_DATE('01/Jan/1991',
'%d/%M/%Y'),STR_TO_DATE('01/Apr/2016', '%d/%M/%Y')), ('CP0298',
'Abram','M','Relations',30000,STR_TO_DATE('17/Apr/1994',
'%d/%M/%Y'),STR_TO_DATE('06/Oct/2016', '%d/%M/%Y')), ('CP0300',
'Alia','F','Relations',30000,STR_TO_DATE('17/Oct/1995',
'%d/%M/%Y'),STR_TO_DATE('06/Oct/2016', '%d/%M/%Y')), ('CP0321',
'Raichal','F','Marketing',34000,STR_TO_DATE('09/Oct/1990',
'%d/%M/%Y'),STR_TO_DATE('22/Oct/2016', '%d/%M/%Y')), ('CP0276',
'Thomas','M','Marketing',44000,STR_TO_DATE('19/Nov/1983',
'%d/%M/%Y'),STR_TO_DATE('22/Oct/2018', '%d/%M/%Y'));

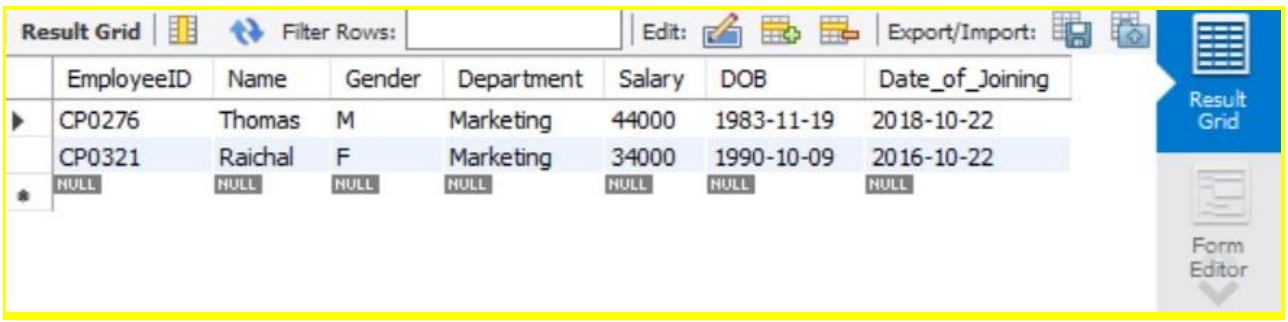
– Display the table all values –

SELECT * FROM Employees;

EmployeeID	Name	Gender	Department	Salary	DOB	Date_of_Joining
CP0087	Felix	M	Finance	48000	1981-04-12	2000-12-10
CP0123	Ann Mery	F	HR	45000	1989-10-10	2018-01-01
CP0197	Merlin	M	CEO	80000	1990-03-01	2011-05-10
CP0213	Philip	M	Retail	47000	1991-04-01	2012-06-11
CP0243	Michael	M	Retail	40000	1992-12-01	2016-05-30
CP0276	Thomas	M	Marketing	44000	1983-11-19	2018-10-22

2. Write SQL queries to select employees from the following departments
   a. Marketing

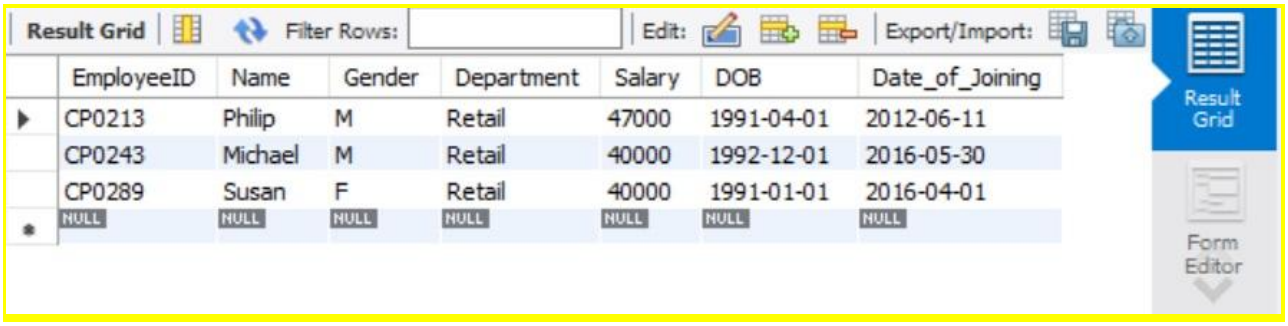
SELECT * FROM Employees WHERE Department = 'Marketing';



EmployeeID	Name	Gender	Department	Salary	DOB	Date_of_Joining
CP0276	Thomas	M	Marketing	44000	1983-11-19	2018-10-22
CP0321	Raichal	F	Marketing	34000	1990-10-09	2016-10-22
NULL	NULL	NULL	NULL	NULL	NULL	NULL

b. Retail

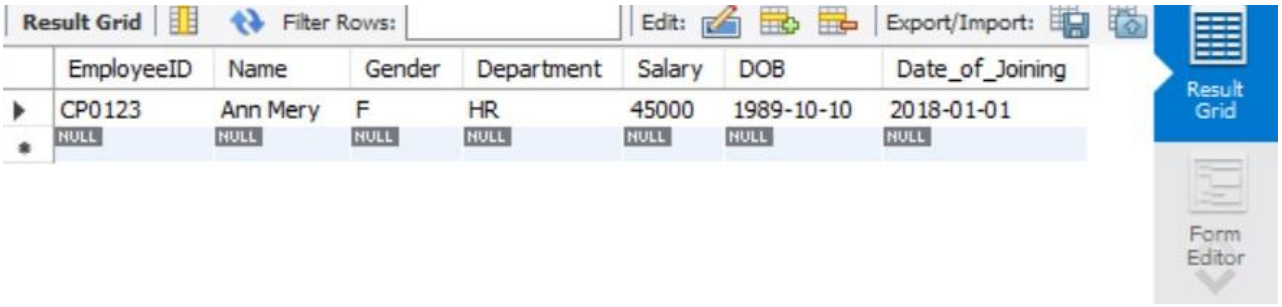
SELECT * FROM Employees WHERE Department = 'Retail';



EmployeeID	Name	Gender	Department	Salary	DOB	Date_of_Joining
CP0213	Philip	M	Retail	47000	1991-04-01	2012-06-11
CP0243	Michael	M	Retail	40000	1992-12-01	2016-05-30
CP0289	Susan	F	Retail	40000	1991-01-01	2016-04-01
NULL	NULL	NULL	NULL	NULL	NULL	NULL

c. HR

SELECT * FROM Employees WHERE Department = 'HR';



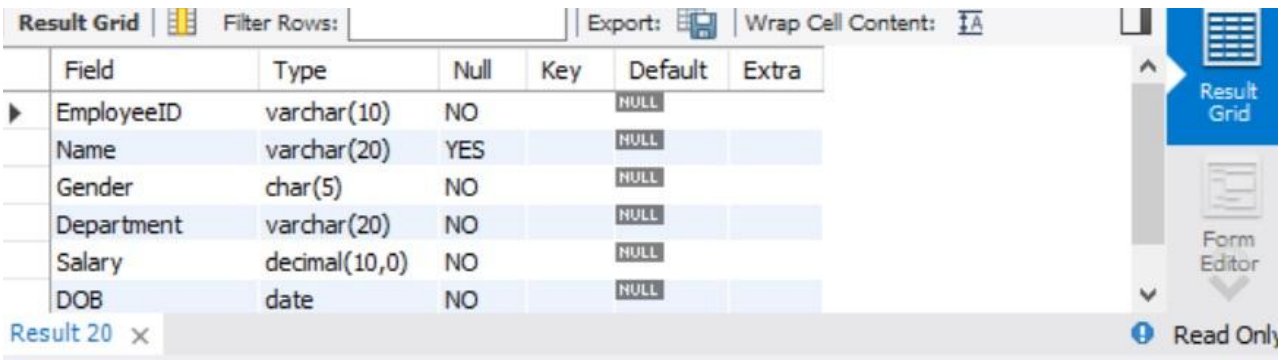
EmployeeID	Name	Gender	Department	Salary	DOB	Date_of_Joining
CP0123	Ann Mery	F	HR	45000	1989-10-10	2018-01-01
NULL	NULL	NULL	NULL	NULL	NULL	NULL

3. Write SQL queries to create a table only containing female employees.

CREATE TABLE Female_Employees as

(SELECT * FROM Employees WHERE Gender = 'F');

– Display the Structure of the table –
DESCRIBE Female_Employees;



Field	Type	Null	Key	Default	Extra
EmployeeID	varchar(10)	NO		NULL	
Name	varchar(20)	YES		NULL	
Gender	char(5)	NO		NULL	
Department	varchar(20)	NO		NULL	
Salary	decimal(10,0)	NO		NULL	
DOB	date	NO		NULL	

– Display the table all values –

SELECT * FROM Female_Employees ;

EmployeeID	Name	Gender	Department	Salary	DOB	Date_of_Joining
CP0123	Ann Mery	F	HR	45000	1989-10-10	2018-01-01
CP0289	Susan	F	Retail	40000	1991-01-01	2016-04-01
CP0300	Alia	F	Relations	30000	1995-10-17	2016-10-06
CP0321	Raichal	F	Marketing	34000	1990-10-09	2016-10-22

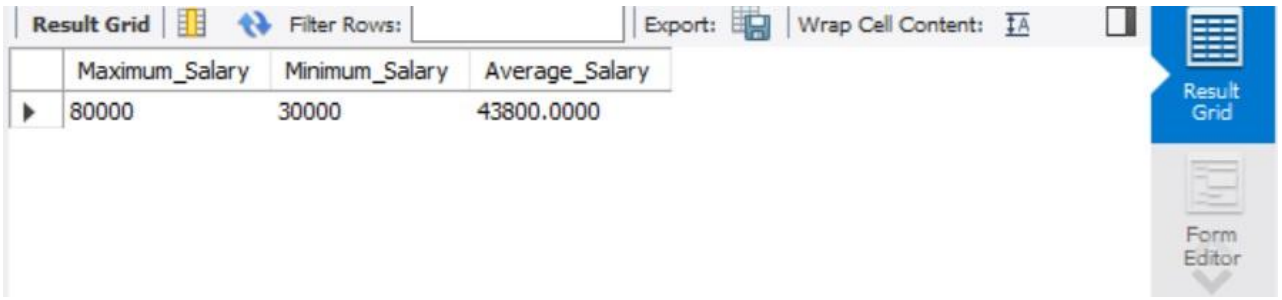
4. Write SQL queries to display the Maximum,Minimum and Average Salary.

SELECT MAX(Salary) as Maximum_Salary,

MIN(Salary) as Minimum_Salary,

AVG(Salary) as Average_Salary

FROM Employees;

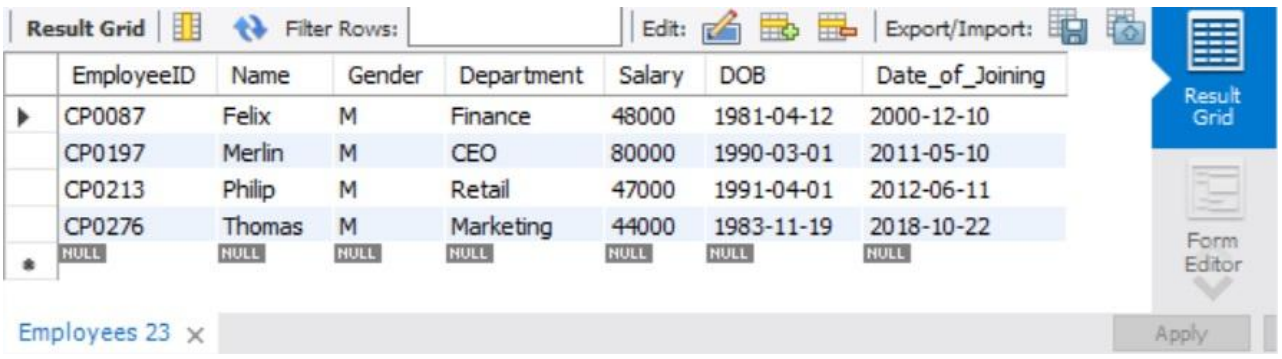


Maximum_Salary	Minimum_Salary	Average_Salary
80000	30000	43800.0000

5. Write SQL query to display the employee details based on the following conditions.

a. Male employees having salary greater than 40000

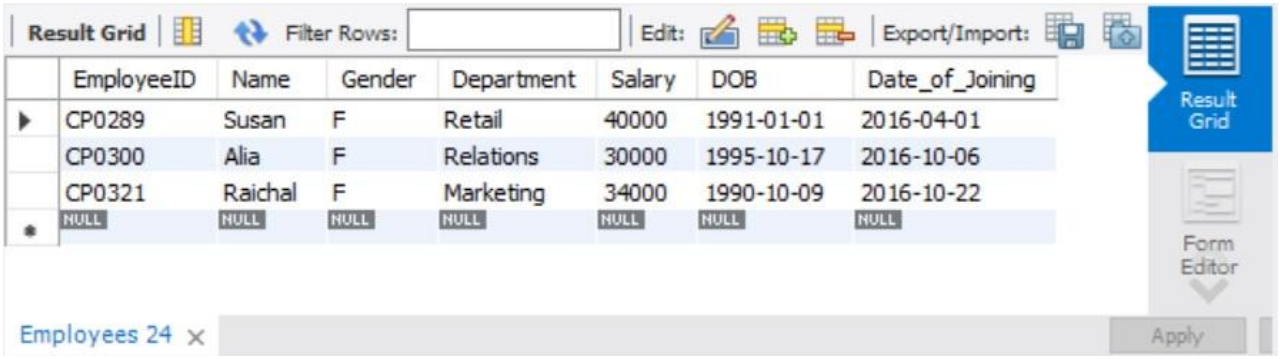
SELECT * FROM Employees WHERE Salary > 40000 and Gender="M";



EmployeeID	Name	Gender	Department	Salary	DOB	Date_of_Joining
CP0087	Felix	M	Finance	48000	1981-04-12	2000-12-10
CP0197	Merlin	M	CEO	80000	1990-03-01	2011-05-10
CP0213	Philip	M	Retail	47000	1991-04-01	2012-06-11
CP0276	Thomas	M	Marketing	44000	1983-11-19	2018-10-22
NULL	NULL	NULL	NULL	NULL	NULL	NULL

b. Female employees having salary less than 45000

SELECT * FROM Employees WHERE Salary < 45000 and Gender="F";



Result Grid | Filter Rows: | Edit: | Export/Import:

EmployeeID	Name	Gender	Department	Salary	DOB	Date_of_Joining
CP0289	Susan	F	Retail	40000	1991-01-01	2016-04-01
CP0300	Alia	F	Relations	30000	1995-10-17	2016-10-06
CP0321	Raichal	F	Marketing	34000	1990-10-09	2016-10-22
NULL	NULL	NULL	NULL	NULL	NULL	NULL

Result Grid | Form Editor | Apply

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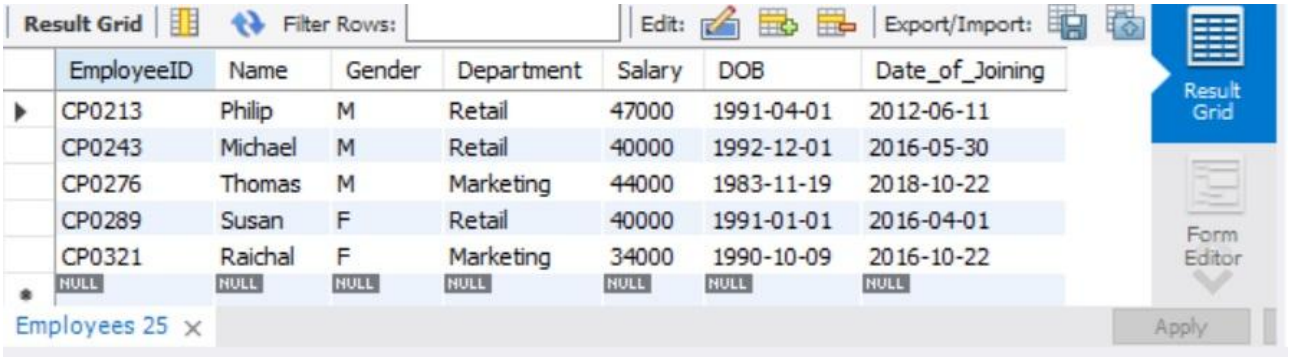
c. Employee having salary between 30000 and 60000 and working in Marketing or Retail department.

SELECT * from Employees WHERE (Salary BETWEEN 30000 AND 60000) AND (Department='Marketing' or Department='Retail');



Result Grid | Filter Rows: | Edit: | Export/Import:

EmployeeID	Name	Gender	Department	Salary	DOB	Date_of_Joining
CP0213	Philip	M	Retail	47000	1991-04-01	2012-06-11
CP0243	Michael	M	Retail	40000	1992-12-01	2016-05-30
CP0276	Thomas	M	Marketing	44000	1983-11-19	2018-10-22
CP0289	Susan	F	Retail	40000	1991-01-01	2016-04-01
CP0321	Raichal	F	Marketing	34000	1990-10-09	2016-10-22
NULL	NULL	NULL	NULL	NULL	NULL	NULL

Result Grid | Form Editor | Apply

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