ASSIGNMENT 4

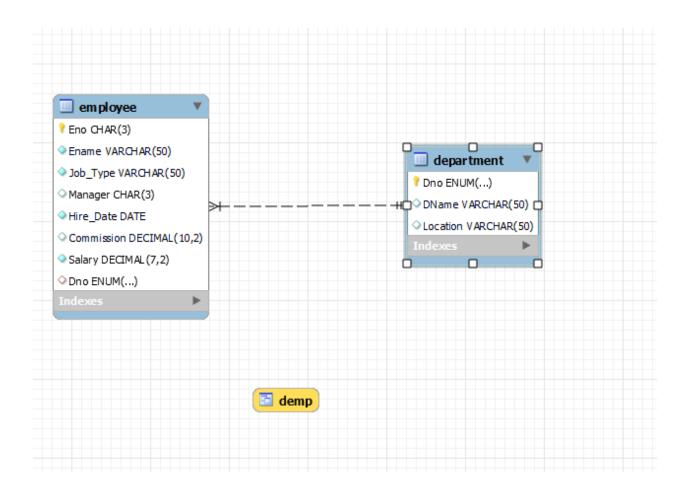
Name: Avishkaar Pawar

Semester: 4th

Course: B.Sc (H) Computer Science

Roll No: AD-1224

Date-of-Submission: 07 April, 2023



/* DDL COMMANDS */

create database EMP_DEPT;

use EMP_DEPT;

```
create table Department(
Dno enum('10','20','30','40','50') NOT NULL PRIMARY KEY,
DName varchar(50) DEFAULT NULL,
Location varchar(50) Default "New Delhi"
);
/*Foreign key references Employee(Eno)*/
create table Employee (
Eno char(3) NOT NULL primary key,
Ename Varchar(50) not null,
Job_Type varchar(50) not null,
Manager char(3),
Hire_Date date Not Null,
Commission Decimal(10,2),
Salary Decimal(7,2) Not Null,
Check (5000>Salary and Salary>1000),
Dno enum('10','20','30','40','50'),
foreign key (Dno) references Department(Dno)
);
```

QUERIES

/* Question 1

Query to display Employee Name, Job, Hire Date, Employee Number for each employee with the Employee Number appearing first */

Select Eno, Ename, Job_Type, Hire_Date from employee;

```
Eno
       Ename
                | Job_Type
                             | Hire_Date
  736
        Ward
                 Clerk
                              1980-12-17
  749
        Allan
                  Sales_Man
                              1981-02-20
                  Sales_Man
  752
        Ward
                              1981-02-22
        Ward
                 Manager
  756
                              1981-04-02
                 Sales_Man
        Martin
  765
                              1981-04-22
  769
        Blake
                 Manager
                              1981-05-01
 778
        Clark
                 Manager
                              1981-06-09
                 President
  783
        King
                              1981-11-17
                  Sales_Man
  784
        Turner |
                              1981-09-08
        Adams
                | Clerk
  787
                              1983-01-12
  788
        Scott
                | Analyst
                              1982-12-09
  790
        James
                 Clerk
                              1981-12-03
                 Analyst
  792
        Ford
                              1981-12-03
                 Clerk
  793
        Clark
                              1982-01-23
        Drek
                 Clerk
                               1982-07-04
15 rows in set (0.01 sec)
```

Query to display Unique Jobs from the Employee Table. */

select distinct job_type from employee;

```
+-----+
| job_type |
+-----+
| Clerk |
| Sales_Man |
| Manager |
| President |
| Analyst |
+-----+
5 rows in set (0.00 sec)
```

/* Question 3

Query to display the Employee Name concatenated by a Job separated by a comma.

*/

select concat_ws(",",ename,job_type) from employee;

```
concat_ws(",",ename,job_type)
 Ward, Clerk
 Allan, Sales_Man
| Ward, Sales_Man
 Ward, Manager
 Martin, Sales_Man
 Blake, Manager
 Clark, Manager
 King, President
 Turner, Sales_Man
 Adams, Clerk
 Scott, Analyst
 James, Clerk
 Ford, Analyst
Clark,Clerk
 Drek, Clerk
15 rows in set (0.00 sec)
```

Query to display all the data from the Employee Table. Separate each Column by a comma and name the said column as THE_OUTPUT.

*/

select concat_ws(", ", eno, ename,job_type, manager, hire_date, commission,salary,dno) THE_OUTPUT from employee;

```
THE_OUTPUT
 736 , Ward , Clerk , 790 , 1980-12-17 , 0.00 , 1200.00 , 20
 749 , Allan , Sales_Man , 769 , 1981-02-20 , 300.00 , 2000.00 , 30
 752 , Ward , Sales_Man , 769 , 1981-02-22 , 500.00 , 1300.00 , 30
 756 , Ward , Manager , 783 , 1981-04-02 , 0.00 , 2300.00 , 20
 765 , Martin , Sales_Man , 198 , 1981-04-22 , 1400.00 , 1250.00 , 30
 769 , Blake , Manager , 783 , 1981-05-01 , 0.00 , 2870.00 , 30
 778 , Clark , Manager , 783 , 1981-06-09 , 0.00 , 2900.00 , 10
 783 , King , President , 1981-11-17 , 0.00 , 2950.00 , 10
 784 , Turner , Sales_Man , 769 , 1981-09-08 , 0.00 , 1450.00 , 30
 787 , Adams , Clerk , 778 , 1983-01-12 , 0.00 , 1150.00 , 20
 788 , Scott , Analyst , 756 , 1982-12-09 , 0.00 , 2850.00 , 40
 790 , James , Clerk , 769 , 1981-12-03 , 0.00 , 1100.00 , 30
 792 , Ford , Analyst , 756 , 1981-12-03 , 0.00 , 2600.00 , 20
 793 , Clark , Clerk , 788 , 1982-01-23 , 0.00 , 1300.00 , 40
794 , Drek , Clerk , 778 , 1982-07-04 , 1500.00 , 1150.00 , 20
15 rows in set (0.00 sec)
```

Query to display the Employee Name & Salary of all the employees earning more than \$2850.

*/

select ename, salary from employee where salary>2850;

```
+----+
| ename | salary |
+----+
| Blake | 2870.00 |
| Clark | 2900.00 |
| King | 2950.00 |
+----+
3 rows in set (0.00 sec)
```

/*Question 6

Query to display Employee Name & Department Number for the Employee No= 790

*/

```
mysql> select ename,dno from employee where eno=790;
+----+
| ename | dno |
+----+
| James | 30 |
+----+
1 row in set (0.00 sec)
```

/*Question 7

Query to display Employee Name & Salary for all employees whose salary is not in the range of \$1500 and \$2850.

*/

```
mysql> select ename, salary from employee where salary not between 1500 and 2850;
ename | salary |
+----+
| Ward | 1200.00 |
| Ward | 1300.00
| Martin | 1250.00
| Blake | 2870.00
| Clark | 2900.00
      2950.00
| King
| Turner | 1450.00
| Adams | 1150.00
| James | 1100.00
| Clark | 1300.00
| Drek | 1150.00 |
+----+
11 rows in set (0.00 sec)
```

Query to display Employee Name, Job, and Hire Date of all the employees hired between Feb 20, 1981 and May 1, 1981. Order the query in ascending order of Start Date.

*/

/* Question 9

Query to display Employee Name & Department No. of all the employees in Dept 10 and Dept 30 in the alphabetical order by name.

*/

```
mysql> select ename,dno from employee where dno in ('10','30') order by ename;
+-----+
| ename | dno |
+-----+
| Allan | 30 |
| Blake | 30 |
| Clark | 10 |
| James | 30 |
| King | 10 |
| Martin | 30 |
| Turner | 30 |
| Ward | 30 |
+-----+
8 rows in set (0.00 sec)
```

Query to display Employee Name & Salary of employees who earned more than \$1500 and are in Department 10 or 30.

*/

```
mysql> select ename, salary from employee where dno in ('10','30') and salary>1500;
+----+
| ename | salary |
+----+
| Clark | 2900.00 |
| King | 2950.00 |
| Allan | 2000.00 |
| Blake | 2870.00 |
+----+
4 rows in set (0.00 sec)
```

/* Question 11

Query to display Name & Hire Date of every Employee who was hired after 1981.

*/

select ename, hire_date from employee where year(hire_date)>1981;

++	+
ename	hire_date
++-	+
Adams	1983-01-12
Scott	1982-12-09
Clark	1982-01-23
Drek	1982-07-04
++	+
4 rows in	set (0.00 sec)

Query to display Name & Job of all employees who don't have a current Manager.

*/

select * from employee where Manager is NULL;

++	Manager	Hire_Date	Commission	Salary	Dno
783 King President	NULL	1981-11-17	0.00	2950.00	10
1 row in set (0.00 sec)	,	,	,	,	,

/* Question 13

Query to display the Name, Salary & Commission for all the employees who earn commission. Sort the data in descending order of Salary and Commission.

*/

select ename, salary, commission from employee where commission!=0 order by salary desc, commission desc;

ename	salary	++ commission +
Allan	2000.00	300.00
Ward	1300.00	500.00
Martin	1250.00	1400.00
Drek	1150.00	1500.00

/* Question 14

Query to display Name of all the employees where the third letter of their name is 'A' and job type is

manager.

*/

select ename from employee where ename like "__A%" and job_type="Manager";

```
+----+
| ename |
+----+
| Blake |
| Clark |
+----+
2 rows in set (0.00 sec)
```

/* Question 15

Query to display Name of all employees either have two 'R's or have two 'A's in their name & are either in Dept No = 30 or their Manger's Employee No = 778.

*/

select ename from employee where ename like "%a%a%" or ename like "%r%r%" and dno="30" and Manager=778;

```
+----+
| ename |
+----+
| Allan |
| Adams |
+----+
2 rows in set (0.00 sec)
```

/* Question 16

Query to display Name, Job and Salary of all employees whose Job is Clerical or Analyst & their salaries are not equal to 1000, 3000, or 5000.

*/

select ename,job_type,salary from employee where job_type="Clerical" or job_type="Analyst" and salary not in (1000,3000,5000);

++		++
		salary
Scott Ford	Analyst Analyst	2850.00 2600.00
	set (0.00	

Query to display Name, Salary and Commission for all employees whose Commission Amount is greater than their Salary increased by 5 %

*/

select ename, salary, commission from employee where commission>(1.05)*salary;

```
+-----+
| ename | salary | commission |
+-----+
| Martin | 1250.00 | 1400.00 |
| Drek | 1150.00 | 1500.00 |
+-----+
2 rows in set (0.00 sec)
```

/* Question 18

Query to display the Current Date and the last date on which any employee joined.

*/

select curdate, max(hire_Date) from employee;

```
| curdate() | max(hire_Date) |
+------+
| 2023-04-06 | 1983-01-12 |
+-----+
1 row in set (0.27 sec)
```

/* Question 19

Query to display Employee No., Name, Salary and the Salary increased by 15 % expressed as a

absolute whole number.

*/

select eno, ename, salary, FORMAT((salary*1.15),0) "115% SALARY" from employee;

++		+	++
eno	ename	salary	115% SALARY
+		+	++
736	Ward	1200.00	1,380
749	Allan	2000.00	2,300
752	Ward	1300.00	1,495
756	Ward	2300.00	2,645
765	Martin	1250.00	1,438
769	Blake	2870.00	3,301
778	Clark	2900.00	3,335
783	King	2950.00	3,393
784	Turner	1450.00	1,668
787	Adams	1150.00	1,323
788	Scott	2850.00	3,278
790	James	1100.00	1,265
792	Ford	2600.00	2,990
793	Clark	1300.00	1,495
794	Drek	1150.00	1,323
++			
15 rows in set (0.00 sec)			

/* QUESTION 20

Query to display Name, Hire Date and Salary Review Date which is the 1st Monday after six months of employment.

*/

select ename, hire_date,

CASE

WHEN dayname(hire_date+ INTERVAL 6 MONTH)='MONDAY' THEN hire_date+ INTERVAL 6 MONTH
WHEN dayname(hire_date+ INTERVAL 6 MONTH)='TUESDAY'THEN DATE_ADD(hire_date+ INTERVAL 6 MONTH,interval 6 DAY)
WHEN dayname(hire_date+ INTERVAL 6 MONTH)='WEDNESDAY' THEN DATE_ADD(hire_date+ INTERVAL 6 MONTH,interval 5 DAY)
WHEN dayname(hire_date+ INTERVAL 6 MONTH)='THURSDAY' THEN DATE_ADD(hire_date+ INTERVAL 6 MONTH,interval 4 DAY)
WHEN dayname(hire_date+ INTERVAL 6 MONTH)='FRIDAY' THEN DATE_ADD(hire_date+ INTERVAL 6 MONTH,interval 2 DAY)
WHEN dayname(hire_date+ INTERVAL 6 MONTH)='SATURDAY' THEN DATE_ADD(hire_date+ INTERVAL 6 MONTH,interval 2 DAY)
WHEN dayname(hire_date+ INTERVAL 6 MONTH)='SUNDAY' THEN DATE_ADD(hire_date+ INTERVAL 6 MONTH,interval 1 DAY)

END

from employee;

```
SALARY_REVIEW_DATE
 hire_date
 1980-12-17
              1981-06-22
 1981-02-20
              1981-08-24
 1981-02-22
              1981-08-24
 1981-04-02
             1981-10-05
             1981-10-26
 1981-04-22
 1981-05-01
              1981-11-02
 1981-06-09
              1981-12-14
 1981-11-17
             1982-05-17
 1981-09-08
             1982-03-08
 1983-01-12
              1983-07-18
 1982-12-09
              1983-06-13
 1981-12-03
              1982-06-07
 1981-12-03
              1982-06-07
 1982-01-23
              1982-07-26
 1982-07-04
              1983-01-10
15 rows in set (0.00 sec)
```

/*Question 21

Query to display the employees that earns a salary that is higher than the salary of any of the clerks along with the difference in salary.

*/

Select ename, salary from employee where salary>(select max(salary) from employee where job_type="Clerk");

```
mysql> Select ename, salary from employee where salary>(select max(salary) from employee where job_type="Clerk");
 ename
        | salary
 Allan
          2000.00
 Ward
          2300.00
 Blake
         2870.00
          2900.00
 Clark
 King
          2950.00
 Turner | 1450.00
          2850.00
 Scott
 Ford
        2600.00
8 rows in set (0.00 sec)
```

/* Question 22

Query to display Name and calculate the number of months between today and the date each employee was hired.

select eno,(year(curdate())-year(hire_date))*12+(month(curdate())-month(hire_date)) Month_Diff from employee;

++	+
eno	Month_Diff
++	+
736	508
749	506
752	506
756	504
765	504
769	503
778	502
783	497
784	499
787	483
788	484
790	496
792	496
793	495
794	489
++	+
15 rows	in set (0.00 sec)

/* Question 23

Query to display the following for each employee:- <E-Name> earns < Salary> monthly but wants < 3

* Current Salary >. Label the Column as Dream Salary

*/

select concat(ename," earns ",salary," monthly but wants ",3*salary) "Dream Salary" from employee;

```
mysql> select concat(ename," earns ",salary," monthly but wants ",3*salary) "Dream Salary" from employee;
Dream Salary
| Ward earns 1200.00 monthly but wants 3600.00
 Allan earns 2000.00 monthly but wants 6000.00
 Ward earns 1300.00 monthly but wants 3900.00
 Ward earns 2300.00 monthly but wants 6900.00
 Martin earns 1250.00 monthly but wants 3750.00
 Blake earns 2870.00 monthly but wants 8610.00
 Clark earns 2900.00 monthly but wants 8700.00
 King earns 2950.00 monthly but wants 8850.00
 Turner earns 1450.00 monthly but wants 4350.00
 Adams earns 1150.00 monthly but wants 3450.00
 Scott earns 2850.00 monthly but wants 8550.00
 James earns 1100.00 monthly but wants 3300.00
Ford earns 2600.00 monthly but wants 7800.00
| Clark earns 1300.00 monthly but wants 3900.00
Drek earns 1150.00 monthly but wants 3450.00
15 rows in set (0.01 sec)
```

Query to display Name and Salary for all employees. Format the salary to be 15 character long, left padded with \$ sign.

*/

select lpad(salary,15,"\$") from employee;

```
lpad(salary,15,"$") |
 $$$$$$$$$1200.00
| $$$$$$$$2000.00
| $$$$$$$$1300.00
| $$$$$$$$2300.00
| $$$$$$$$1250.00
| $$$$$$$$2870.00
 $$$$$$$$$2900.00
| $$$$$$$$2950.00
| $$$$$$$$1450.00
 $$$$$$$$1150.00
 $$$$$$$$$2850.00
| $$$$$$$$1100.00
 $$$$$$$$2600.00
 $$$$$$$$$1300.00
 $$$$$$$$1150.00
15 rows in set (0.00 sec)
```

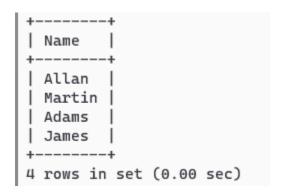
/* Question 25

Query to display Name with the 1st letter capitalized and all other letter lower case & length of their

name of all the employees whose name starts with 'J','A' and 'M

*/

select concat(left(ename,1),substring(ename,2)) as Name from employee where ename like "J%" or ename like "A%" or ename like "M%";



/* Question 26

Query to display Name, Hire Date and Day of the week on which the employee started his/her job

*/

select ename, hire_date, dayofweek(hire_date) DayOfWeek from employee;

++		+
ename	hire_date	DayOfWeek
++		+
Ward	1980-12-17	4
Allan	1981-02-20	6
Ward	1981-02-22	1
Ward	1981-04-02	5
Martin	1981-04-22	4
Blake	1981-05-01	6
Clark	1981-06-09	3
King	1981-11-17	3
Turner	1981-09-08	3
Adams	1983-01-12	4
Scott	1982-12-09	5
James	1981-12-03	5
Ford	1981-12-03	5
Clark	1982-01-23	7
Drek	1982-07-04	1
·		+
5 rows in	set (0.08 se	ec)

/* Question 27

Query to display Name and Commission Amount. If the employee does not earn commission then use default value 'No Commission'.

select ename, if (commission>0, commission, "No Commission") from employee;

ename	if(commission>0,commission,"No Commission")
Ward Ward Ward Ward Ward Ward Wartin Blake Clark King Turner Adams Scott James Ford	No Commission 300.00 500.00 No Commission 1400.00 No Commission No
Clark Drek	No Commission No Commission 1500.00

/* Question 28

Query to display Name, Department Name and Department No for all the employees.

*/
select ename , dname ,dno from employee natural join department;

+	dname	dno	
Clark	Accounting	10	
King	Accounting	10	
Ward	Research	20	
Ward	Research	20	
Adams	Research	20	
Ford	Research	20	
Drek	Research	20	
Allan	Sales	30	
Ward	Sales	30	
Martin	Sales	30	
Blake	Sales	30	
Turner	Sales	30	
James	Sales	30	
Scott	Operation	40	
Clark	Operation 40		
++		++	
15 rows in set (0.04 sec)			

Query to display Unique Listing of all Jobs that are in Department # 30

*/

select distinct job_type from employee where dno="30";

```
+-----+
| job_type |
+-----+
| Sales_Man |
| Manager |
| Clerk |
+-----+
3 rows in set (0.01 sec)
```

/* Question 30

Query to display Name, Department Name and Location for all employees earning a commission

*/

select ename,dname,location from employee natural join department where commission>0;

ename	dname	++ location +
Allan	Sales	Chicago
Ward	Sales	Chicago
Martin	Sales	Chicago
Drek	Research	Dallas

/* Question 31

Query to display Name, Dept Name of all employees who have an 'A' in their name and works at user-specified location.

*/

set @location=#EnterLoc;

"chicago";

select ename,dname from employee natural join department where (ename like "%A%") and location=@location;

+	+
ename	dname
+	+
Allan	Sales
Ward	Sales
Martin	Sales
Blake	Sales
James	Sales
+	+
5 rows in	set (0.00 sec)

Query to display Name, Job, Department No. and Department Name for all the employees working at the Dallas location.

*/

ename	job_type	dno	dname	
Ward Ward Adams Ford Drek	Clerk Manager Clerk Analyst Clerk	20 20 20 20 20 20 20	Research Research Research Research Research	
5 rows in set (0.00 sec)				

/* Question 33

Query to display Name and Employee No. along with their Manager's Name and Manager's employee no. */

select A.eno, A.ename, A.manager, B.ename "Manager's Name" from employee A, employee B where A.manager = B.eno;

++		+	+
eno	ename	manager	Manager's Name
++		+	++
736	Ward	790	James
749	Allan	769	Blake
752	Ward	769	Blake
756	Ward	783	King
769	Blake	783	King
778	Clark	783	King
784	Turner	769	Blake
787	Adams	778	Clark
788	Scott	756	Ward
790	James	769	Blake
792	Ford	756	Ward
793	Clark	788	Scott
794	Drek	778	Clark
+		+	++
13 rows	in set	(0.00 sec)	

Query to display Name and Employee no. along with their Manger's Name and the Manager's employee no; along with the Employees' Name who do not have a Manager

*/

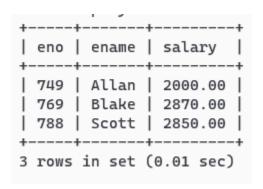
 $select\ A.eno, A.ename, A.manager, B.ename\ "Manager's\ Name"\ from\ employee\ A\ left\ join\ employee\ B\ on\ A.manager=B.eno\ or\ A.manager=NULL;$

+				
eno ename	manager	Manager's Name		
736 Ward	790	James		
749 Allan	769	Blake		
752 Ward	769	Blake		
756 Ward	783	King		
765 Martin	198	NULL		
769 Blake	783	King		
778 Clark	783	King		
783 King	NULL	NULL		
784 Turner	769	Blake		
787 Adams	778	Clark		
788 Scott	756	Ward		
790 James	769	Blake		
792 Ford	756	Ward		
793 Clark	788	Scott		
794 Drek	778	Clark		
++	+	++		
15 rows in set (0.00 sec)				

Query to display the Employee No, Name and Salary for all employees who earn than the average salary and who work in a Department with any employee with a 'T' in his/her name.

*/

select eno,ename,salary from employee where (salary >(select avg(salary) from employee)) and (dno =any(select dno from employee where ename like "%t%"));



/* Question 36

Query to display Name, Dept No. & Salary of any employee whose department No. and salary matches both the department no. and the salary of any employee who earns a commission.

*/

select A.ename, A.dno, A.salary from employee A, employee B where B.dno=A.dno and A.salary=B.salary and B.commission=0;

/* Question 37

Query to display Name, Hire Date of any employee hired after the employee Blake was hired by the Company

Assuming there is only one Blake

*/

select ename, hire_date from employee where hire_date>(select hire_date from employee where ename="Blake");

```
| hire_date
 ename
 Clark
          1981-06-09
 King
        1981-11-17
 Turner | 1981-09-08
 Adams
        1983-01-12
 Scott
        1982-12-09
 James
        1981-12-03
 Ford
         1981-12-03
 Clark
        1982-01-23
 Drek
        1982-07-04
9 rows in set (0.00 sec)
```

Query to display Name and Hire Dates of all Employees along with their Manager's Name and Hire

Date for all the employees who were hired before their managers

*/

select A.ename, A.hire_date, B.ename, B.hire_date from employee A, employee B where A.hire_date < B.hire_date and a.manager=b.eno;

ename	hire_date	ename		
Ward Allan Ward Ward Blake Clark Clark	1980-12-17 1981-02-20 1981-02-22 1981-04-02 1981-05-01 1981-06-09 1982-01-23	James Blake Blake King King King Scott	1981-12-03 1981-05-01 1981-05-01 1981-11-17 1981-11-17 1981-11-17	
7 rows in	++ 7 rows in set (0.00 sec)			

/*Question 39

Query to display Name and Salaries represented by Asteristisks – "Each asterisks (*) signifying \$100.

*/

select ename,repeat("*",salary/100) from employee;

```
| repeat("*",salary/100)
 Ward
 Allan
      ******
Ward
 Ward
      *******
 Martin | ********
| Blake
     *********
Clark
King
     **********
| Turner | **********
Adams | ********
Scott
     *********
 James
Ford
     ********
Clark
 Drek
      *****
15 rows in set (0.00 sec)
```

Query to display the Highest, Lowest, Sum and Average Salaries of all the employees

*/

select max(salary) Highest, min(salary) Lowest, sum(Salary) Sum, avg(salary) Average from employee;

```
+-----+
| Highest | Lowest | Sum | Average |
+-----+
| 2950.00 | 1100.00 | 28370.00 | 1891.333333 |
+----+
1 row in set (0.00 sec)
```

/* Question 41

Query to display Highest, Lowest, Sum and Average Salary for each unique Job Type

*/

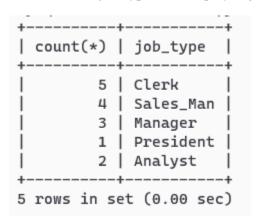
 $select\ job_type, max(salary)\ Highest,\ min(salary)\ Lowest\ ,\ sum(Salary)\ Sum\ ,\ avg(salary)\ Average\ from\ employee\ group\ by\ job_type;$

job_type	Highest	Lowest	Sum	+ Average
Clerk Sales_Man Manager President Analyst	1300.00 2000.00 2900.00 2950.00 2850.00	1100.00 1250.00 2300.00 2950.00	5900.00 6000.00 8070.00 2950.00 5450.00	1180.000000 1500.0000000 2690.0000000 2950.0000000 2725.0000000
5 rows in set	(0.00 sec	:)		

Query to display the number of employees performing the same Job type functions

*/

select count(*),job_type from employee group by job_type;



/* Question 43

Query to display the no. of managers without listing their names.

*/

select count(distinct manager) from employee;

/* Question 44

Query to display the Difference between the Highest and Lowest Salaries for each department

*/

select max(salary)-min(salary) from employee group by dno;

Query to display the Manager's No. & the Salary of the Lowest paid employee for that respective manager. Exclude anyone where the Manager ID is not known. Exclude any groups where the minimum salary is less than \$1000.

*/

select manager,min(salary) from employee group by manager having manager is not null and min(salary)>1000;

+-		-+-	+
1	manager	1	min(salary)
+-		-+-	+
1	790		1200.00
	769		1100.00
	783		2300.00
	198		1250.00
	778		1150.00
	756		2600.00
	788		1300.00
+-		-+-	+
7	rows in	S	et (0.00 sec)

/* Question 46

Query to display the Department Name, Location Name, No. of Employees & the average salary for all employees in that department.

*/

select D.dno,location,count(eno),avg(salary) from employee E, department D where E.dno=D.dno group by D.dno;

30 Chicago 6 1661.666667 10 New York 2 2925.000000	dno	location	count(eno)	avg(salary)
10 New York 2 2925.000000	20	Dallas	5	1680.000000
: : : :	30	Chicago	6	1661.666667
110 Boston 2 2075 000000	10	New York	2	2925.000000
40 6050011 2 2075.000000	40	Boston	2	2075.000000

Query to display Name and Hire Date for all employees who work in the same dept. as Blake.

*/

select ename, hire_date from employee where dno=(select dno from employee where ename="Blake");



/* Question 48

Query to display the Employee No. & Name for all employees who earn more than the average salary in their respective department

*/

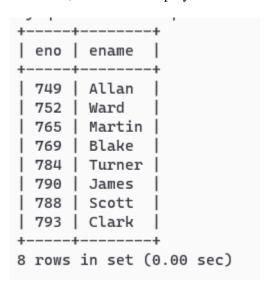
select A.eno, A.ename, A.salary, B.salary from employee A, (select avg(salary) Salary, dno from employee group by dno) B where A.salary>B.salary and a.dno=b.dno;

+	·	ŀ
eno ename	salary salary	
+	-+	+
783 King	2950.00 2925.000000	
756 Ward	2300.00 1680.000000	
792 Ford	2600.00 1680.000000	
749 Allan	2000.00 1661.666667	
769 Blake	2870.00 1661.666667	
788 Scott	2850.00 2075.000000	
+	-+	+
6 rows in set	(0.00 sec)	

Query to display Employee Number & Name for all employees who work in a department with any employee whose name contains a 'T'.

*/

select eno,ename from employee where dno in (select dno from employee where ename like "%t%");



/* Question 50

Query to display the employee name and salary of all employees who report to King.

*/

select ename, salary from employee where manager=(select eno from employee where ename="King");

```
+----+
| ename | salary |
+----+
| Ward | 2300.00 |
| Blake | 2870.00 |
| Clark | 2900.00 |
+----+
3 rows in set (0.00 sec)
```

Query to display the Department No, Name & Job for top-5 employees (as per salary earned) in the

Sales Dept on descending order on name

*/

select dno, ename, job_type, salary from employee where dno=(select dno from department where dname="Sales") order by salary desc LIMIT 5;

+	: :	job_type	++ salary		
30 30 30 30 30	Blake Allan Turner Ward Martin	Manager Sales_Man Sales_Man Sales_Man Sales_Man	2870.00 2000.00 1450.00 1300.00		
5 rows	5 rows in set (0.00 sec)				

/* Question 52

Select manager name getting salary greater than average salary of employees in his department.

*/

select distinct b.ename , b.salary , c.salary Avg_Salary from employee A , employee B, (select avg(salary) salary, dno from employee group by dno) C where a.manager=b.eno and b.dno=c.dno and b.salary>c.salary ;

```
+-----+
| ename | salary | Avg_Salary |
+-----+
| King | 2950.00 | 2925.000000 |
| Ward | 2300.00 | 1680.000000 |
| Blake | 2870.00 | 1661.666667 |
| Scott | 2850.00 | 2075.000000 |
+-----+
4 rows in set (0.00 sec)
```

Create a view to store following information:

Dname| Location | Average salary | Number of Employee | Date of joining of first employee

*/

create view Demp as

select Dname, Location, b.salary Average_Salary, b.count "Number of Employee", b.hire_date "Date of joining of first employee"

from (select avg(salary) salary,dno,min(hire_date) hire_date,count(*) count from employee group by dno) B,

Department D where b.dno=d.dno;

Dname			Date of joining of first employee
Accounting Research Sales Operation		2 5 6	1981-06-09 1980-12-17 1981-02-20 1982-01-23