DBMS PRACTICAL

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```
create table DEPARTMENT
(
    Dno number(2) primary key,
    Dname varchar(50),
    location varchar(50) Default'New Delhi'
);
```

Table	Colum n	Data Type	Lengt h	Precisio n	Scal e	Primary Key	Nullabl e	Defau It	Comme nt
DEPARTME NT	DNO	Number	-	2	0	1	-	-	-
	DNAME	Varchar2	50	-	-	-	~	-	-
	LOCATIO N	Varchar2	50	-	-	-	~	'New Delhi'	-

DNO	DNAME	LOCATION
10	Accounting	New York
20	Research	Dallas
30	Sales	Chicago
40	Operation	Boston
50	Marketing	New Delhi

```
create table EMPLOYEE
(
    Eno char(3) primary key,
    Ename varchar(50) NOT NULL,
    Job_type varchar(50) NOT NULL,
    Manager char(3),
    Hire_date date NOT NULL,
    Dno number(2),
    Commission decimal(10,2),
    Salary decimal(7,2) NOT NULL,
    foreign key(Manager) REFERENCES EMPLOYEE(Eno),
    foreign key(Dno) REFERENCES DEPARTMENT(Dno)
);
```

Table	Column	Data Type	Lengt h	Precisio n	Scal e	Primary Key	Nullabl e	Defau It	Comme nt
EMPLOYE E	ENO	Char	3	-	-	1	-	-	-
	ENAME	Varchar2	50	-	-	-	-	-	-
	JOB_TYPE	Varchar2	50	-	-	-	-	-	-
	MANAGER	Char	3	-	-	-	/	-	-
	HIRE_DATE	Date	7	-	-	-	-	-	-
	DNO	Number	-	2	0	-	/	-	-
	COMMISSI ON	Number	-	10	2	-	~	-	-
	SALARY	Number	-	7	2	-	-	-	-

ENO	ENAME	IOD TVDE	MANAGER	HIDE DATE	DNO	COMMISSION	SALARY
ENU	ENAME	JOB_TYPE	MANAGER	HIRE_DATE	DNO	COMMISSION	SALAKY
783	King	President	-	17-NOV-81	10	0	2950
756	Jones	Manager	783	02-APR-81	20	0	2300
778	Clark	Manager	783	09-JUN-81	10	0	2900
769	Blake	Manager	783	01-MAY-81	30	0	2870
752	Ward	Sales_man	769	22-FEB-81	30	500	1300
749	Allan	Sales_man	769	20-FEB-81	30	300	2000
784	Turner	Sales_man	769	08-SEP-81	30	0	1450
792	Ford	Analyst	756	03-DEC-81	20	0	2600
788	Scott	Analyst	756	09-DEC-82	20	0	2850
790	James	Clerk	769	03-DEC-81	30	0	950
736	Smith	Clerk	790	17-DEC-80	20	0	1000
793	Miller	Clerk	788	23-JAN-82	40	0	1300
787	Adams	Clerk	778	12-JAN-83	20	0	1150
765	Martin	Sales_man	769	22-APR-81	30	1400	1250

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
783	King	President	17-NOV-81
756	Jones	Manager	02-APR-81
778	Clark	Manager	09-JUN-81
769	Blake	Manager	01-MAY-81
752	Ward	Sales_man	22-FEB-81
749	Allan	Sales_man	20-FEB-81
784	Turner	Sales_man	08-SEP-81
792	Ford	Analyst	03-DEC-81
788	Scott	Analyst	09-DEC-82
790	James	Clerk	03-DEC-81
736	Smith	Clerk	17-DEC-80
793	Miller	Clerk	23-JAN-82
787	Adams	Clerk	12-JAN-83
765	Martin	Sales_man	22-APR-81

2) Query to display Unique Jobs from the Employee Table.

SELECT DISTINCT JOB_TYPE FROM EMPLOYEE

JOB_TYPE			
Manager			
Analyst			
Clerk			
President			
Sales_man			

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

SELECT(ENAME || ' , ' || JOB_TYPE) FROM EMPLOYEE

(ENAME ',' JOB_TYPE)					
King , President					
Jones , Manager					
Clark , Manager					
Blake , Manager					
Ward , Sales_man					
Allan , Sales_man					
Turner , Sales_man					
Ford , Analyst					
Scott , Analyst					
James , Clerk					
Smith , Clerk					
Miller , Clerk					
Adams , Clerk					
Martin , Sales_man					

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

 $SELECT(ENO \parallel ' , ' \parallel ENAME \parallel ' , ' \parallel JOB_TYPE \parallel ' , ' \parallel MANAGER \parallel ' , ' \parallel HIRE_DATE \parallel ' , ' \parallel DNO \parallel ' , ' \parallel COMMISSION \parallel ' , ' \parallel SALARY) \\ THE_OUTPUT \\ FROM EMPLOYEE$

THE_OUTPUT
783 , King , President , , 17-NOV-81 , 10 , 0 , 2950
756 , Jones , Manager , 783 , 02-APR-81 , 20 , 0 , 2300
778 , Clark , Manager , 783 , 09-JUN-81 , 10 , 0 , 2900
769 , Blake , Manager , 783 , 01-MAY-81 , 30 , 0 , 2870
752 , Ward , Sales_man , 769 , 22-FEB-81 , 30 , 500 , 1300
749 , Allan , Sales_man , 769 , 20-FEB-81 , 30 , 300 , 2000
784 , Turner , Sales_man , 769 , 08-SEP-81 , 30 , 0 , 1450
792 , Ford , Analyst , 756 , 03-DEC-81 , 20 , 0 , 2600
788 , Scott , Analyst , 756 , 09-DEC-82 , 20 , 0 , 2850
790 , James , Clerk , 769 , 03-DEC-81 , 30 , 0 , 950
736 , Smith , Clerk , 790 , 17-DEC-80 , 20 , 0 , 1000
793 , Miller , Clerk , 788 , 23-JAN-82 , 40 , 0 , 1300
787 , Adams , Clerk , 778 , 12-JAN-83 , 20 , 0 , 1150
765 , Martin , Sales_man , 769 , 22-APR-81 , 30 , 1400 , 1250

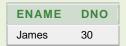
5) Query to display the Employee Name & Salary of all the employees earning more than \$2850.

SELECT ENAME, SALARY FROM EMPLOYEE WHERE SALARY > 2850

ENAME	SALARY	
King	2950	
Clark	2900	
Blake	2870	

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

SELECT ENAME, DNO FROM EMPLOYEE WHERE ENO=790



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

SELECT ENAME, SALARY FROM EMPLOYEE WHERE SALARY NOT BETWEEN 1500 AND 2850

ENAME	SALARY
King	2950
Clark	2900
Blake	2870
Ward	1300
Turner	1450
James	950
Smith	1000
Miller	1300
Adams	1150
Martin	1250

8) 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 Hire Date.

SELECT ENAME, JOB_TYPE, HIRE_DATE FROM EMPLOYEE WHERE HIRE_DATE BETWEEN '20-FEB-81' AND '01-MAY-81' ORDER BY HIRE_DATE

ENAME	JOB_TYPE	HIRE_DATE
Allan	Sales_man	20-FEB-81
Ward	Sales_man	22-FEB-81
Jones	Manager	02-APR-81
Martin	Sales_man	22-APR-81
Blake	Manager	01-MAY-81

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

SELECT ENAME, DNO FROM EMPLOYEE WHERE DNO=10 OR DNO=30 ORDER BY ENAME

ENAME	DNO
Allan	30
Blake	30
Clark	10
James	30
King	10
Martin	30
Turner	30
Ward	30

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

SELECT ENAME, SALARY
FROM EMPLOYEE
WHERE SALARY > 1500 AND (DNO=10 OR DNO=30)

ENAME	SALARY
King	2950
Clark	2900
Blake	2870
Allan	2000

11) Query to display Name & Hire Date of every Employee who was hired in 1981.

SELECT ENAME, HIRE_DATE FROM EMPLOYEE WHERE HIRE_DATE LIKE '%81'

ENAME	HIRE_DATE
King	17-NOV-81
Jones	02-APR-81
Clark	09-JUN-81
Blake	01-MAY-81
Ward	22-FEB-81
Allan	20-FEB-81
Turner	08-SEP-81
Ford	03-DEC-81
James	03-DEC-81
Martin	22-APR-81

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

SELECT ENAME, JOB_TYPE FROM EMPLOYEE WHERE MANAGER IS NULL



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	300
Ward	1300	500
Martin	1250	1400

14) Query to display Name of all the employees where the third letter of their name is 'A'.

SELECT ENAME FROM EMPLOYEE WHERE ENAME LIKE '__a%'



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 'R%r%' OR ENAME LIKE '%r%r%' OR ENAME LIKE 'A%a%' OR ENAME LIKE '%a%a%') AND (DNO=30 OR MANAGER=778)



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='Clerk' OR JOB_TYPE='Analyst') AND SALARY NOT IN(1000,3000,5000)

ENAME	JOB_TYPE	SALARY
Ford	Analyst	2600
Scott	Analyst	2850
James	Clerk	950
Miller	Clerk	1300
Adams	Clerk	1150

17) 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	1400	

18) Query to display the Current Date.

SELECT sysdate FROM DUAL



19) Query to display Employee No., Name, Salary and the Salary increased by 15 % expressed as a absolute whole number.

SELECT ENO, ENAME, SALARY, round(SALARY*1.15) FROM EMPLOYEE

ENO	ENAME	SALARY	ROUND(SALARY*1.15)
783	King	2950	3393
756	Jones	2300	2645
778	Clark	2900	3335
769	Blake	2870	3301
752	Ward	1300	1495
749	Allan	2000	2300
784	Turner	1450	1668
792	Ford	2600	2990
788	Scott	2850	3278
790	James	950	1093
736	Smith	1000	1150
793	Miller	1300	1495
787	Adams	1150	1323
765	Martin	1250	1438

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, next_day(add_months(HIRE_DATE,6),'Monday') AS "SALARY REVIEW DATE" FROM EMPLOYEE

ENAME	HIRE_DATE	SALARY REVIEW DATE
King	17-NOV-81	24-MAY-82
Jones	02-APR-81	05-OCT-81
Clark	09-JUN-81	14-DEC-81
Blake	01-MAY-81	02-NOV-81
Ward	22-FEB-81	24-AUG-81
Allan	20-FEB-81	24-AUG-81
Turner	08-SEP-81	15-MAR-82
Ford	03-DEC-81	07-JUN-82
Scott	09-DEC-82	13-JUN-83
James	03-DEC-81	07-JUN-82
Smith	17-DEC-80	22-JUN-81
Miller	23-JAN-82	26-JUL-82
Adams	12-JAN-83	18-JUL-83
Martin	22-APR-81	26-OCT-81

21) Query to display the employees that earn a salary that is higher than the salary of any of the clerks.

SELECT *
FROM EMPLOYEE

WHERE SALARY > ANY (SELECT SALARY FROM EMPLOYEE WHERE JOB_TYPE = 'Clerk')

ENO	ENAME	JOB_TYPE	MANAGER	HIRE_DATE	DNO	COMMISSION	SALARY
783	King	President	-	17-NOV-81	10	0	2950
778	Clark	Manager	783	09-JUN-81	10	0	2900
769	Blake	Manager	783	01-MAY-81	30	0	2870
788	Scott	Analyst	756	09-DEC-82	20	0	2850
792	Ford	Analyst	756	03-DEC-81	20	0	2600
756	Jones	Manager	783	02-APR-81	20	0	2300
749	Allan	Sales_man	769	20-FEB-81	30	300	2000
784	Turner	Sales_man	769	08-SEP-81	30	0	1450
752	Ward	Sales_man	769	22-FEB-81	30	500	1300
793	Miller	Clerk	788	23-JAN-82	40	0	1300
765	Martin	Sales_man	769	22-APR-81	30	1400	1250
787	Adams	Clerk	778	12-JAN-83	20	0	1150
736	Smith	Clerk	790	17-DEC-80	20	0	1000

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

SELECT ENAME, round(months_between(sysdate,hire_date))as "Months Between" FROM EMPLOYEE

ENAME	Months Between
King	406
Jones	413
Clark	411
Blake	413
Ward	415
Allan	415
Turner	408
Ford	405
Scott	393
James	405
Smith	417
Miller	404
Adams	392
Martin	413

SELECT ENAME $\|$ ' earns ' $\|$ SALARY $\|$ ' monthly but wants ' $\|$ 3 * SALARY as "DREAM SALARY" FROM EMPLOYEE

DREAM SALARY
King earns 2950 monthly but wants 8850
Jones earns 2300 monthly but wants 6900
Clark earns 2900 monthly but wants 8700
Blake earns 2870 monthly but wants 8610
Ward earns 1300 monthly but wants 3900
Allan earns 2000 monthly but wants 6000
Turner earns 1450 monthly but wants 4350
Ford earns 2600 monthly but wants 7800
Scott earns 2850 monthly but wants 8550
James earns 950 monthly but wants 2850
Smith earns 1000 monthly but wants 3000
Miller earns 1300 monthly but wants 3900
Adams earns 1150 monthly but wants 3450
Martin earns 1250 monthly but wants 3750

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

SELECT ENAME, SALARY, LPAD(SALARY,15,'\$') FROM EMPLOYEE

ENAME	SALARY	LPAD(SALARY,15,'\$')
King	2950	\$\$\$\$\$\$\$\$\$\$\$2950
Jones	2300	\$\$\$\$\$\$\$\$\$\$2300
Clark	2900	\$\$\$\$\$\$\$\$\$\$2900
Blake	2870	\$\$\$\$\$\$\$\$\$\$\$2870
Ward	1300	\$\$\$\$\$\$\$\$\$\$\$1300
Allan	2000	\$\$\$\$\$\$\$\$\$\$2000
Turner	1450	\$\$\$\$\$\$\$\$\$\$\$1450
Ford	2600	\$\$\$\$\$\$\$\$\$\$\$2600
Scott	2850	\$\$\$\$\$\$\$\$\$\$\$2850
James	950	\$\$\$\$\$\$\$\$\$\$\$950
Smith	1000	\$\$\$\$\$\$\$\$\$\$\$1000
Miller	1300	\$\$\$\$\$\$\$\$\$\$\$1300
Adams	1150	\$\$\$\$\$\$\$\$\$\$\$1150
Martin	1250	\$\$\$\$\$\$\$\$\$\$\$1250

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 initcap(ENAME) "NAME", length(ENAME)"LENGTH"
FROM EMPLOYEE
WHERE ENAME LIKE 'J%' OR ENAME LIKE 'A%' OR ENAME LIKE 'M%'

NAME	LENGTH
Jones	5
Allan	5
James	5
Miller	6
Adams	5
Martin	6

26) Query to display Name, Hire Date and Day of the week on which the employee started.

SELECT ENAME, HIRE_DATE, to_char(HIRE_DATE, 'DAY')"DAY" FROM EMPLOYEE

ENAME	HIRE_DATE	DAY
King	17-NOV-81	TUESDAY
Jones	02-APR-81	THURSDAY
Clark	09-JUN-81	TUESDAY
Blake	01-MAY-81	FRIDAY
Ward	22-FEB-81	SUNDAY
Allan	20-FEB-81	FRIDAY
Turner	08-SEP-81	TUESDAY
Ford	03-DEC-81	THURSDAY
Scott	09-DEC-82	THURSDAY
James	03-DEC-81	THURSDAY
Smith	17-DEC-80	WEDNESDAY
Miller	23-JAN-82	SATURDAY
Adams	12-JAN-83	WEDNESDAY
Martin	22-APR-81	WEDNESDAY

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

 $SELECT\ ENAME,\ decode (COMMISSION, 0, 'No\ Commission', COMMISSION) "COMMISSION" FROM\ EMPLOYEE$

ENAME	COMMISSION
King	No Commission
Jones	No Commission
Clark	No Commission
Blake	No Commission
Ward	500
Allan	300
Turner	No Commission
Ford	No Commission
Scott	No Commission
James	No Commission
Smith	No Commission
Miller	No Commission
Adams	No Commission
Martin	140

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

SELECT ENAME, DNAME, D.DNO FROM EMPLOYEE E, DEPARTMENT D WHERE E.DNO = D.DNO

ENAME	DNAME	DNO
King	Accounting	10
Jones	Research	20
Clark	Accounting	10
Blake	Sales	30
Ward	Sales	30
Allan	Sales	30
Turner	Sales	30
Ford	Research	20
Scott	Research	20
James	Sales	30
Smith	Research	20
Miller	Operation	40
Adams	Research	20
Martin	Sales	30

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

SELECT DISTINCT JOB_TYPE FROM EMPLOYEE WHERE DNO=30



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

SELECT ENAME, DNAME, LOCATION
FROM EMPLOYEE E, DEPARTMENT D
WHERE E.DNO = D.DNO AND COMMISSION > 0

ENAME	DNAME	LOCATION
Ward	Sales	Chicago
Allan	Sales	Chicago
Martin	Sales	Chicago

31) Query to display Name, Dept Name of all employees who have an 'A' in their name.

SELECT ENAME, DNAME FROM EMPLOYEE E, DEPARTMENT D WHERE E.DNO = D.DNO AND (ENAME LIKE '%a%' OR ENAME LIKE '%A%')

ENAME	DNAME
Clark	Accounting
Blake	Sales
Ward	Sales
Allan	Sales
James	Sales
Adams	Research
Martin	Sales

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

SELECT ENAME, JOB_TYPE, D.DNO, DNAME FROM EMPLOYEE E, DEPARTMENT D WHERE E.DNO = D.DNO AND LOCATION = 'Dallas'

ENAME	JOB_TYPE	DNO	DNAME
Jones	Manager	20	Research
Ford	Analyst	20	Research
Scott	Analyst	20	Research
Smith	Clerk	20	Research
Adams	Clerk	20	Research

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

SELECT A.ENAME "NAME", A.ENO "ENO", B.ENAME "MGR NAME", B.ENO "MGR ENO" FROM EMPLOYEE A, EMPLOYEE B WHERE A.MANAGER = B.ENO

NAME	ENO	MGR NAME	MGR ENO
Jones	756	King	783
Clark	778	King	783
Blake	769	King	783
Ward	752	Blake	769
Allan	749	Blake	769
Turner	784	Blake	769
Ford	792	Jones	756
Scott	788	Jones	756
James	790	Blake	769
Smith	736	James	790
Miller	793	Scott	788
Adams	787	Clark	778
Martin	765	Blake	769

34) 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.ENAME "NAME", A.ENO "ENO", B.ENAME "MGR NAME", B.ENO "MGR ENO" FROM EMPLOYEE A LEFT OUTER JOIN EMPLOYEE B ON A.MANAGER = B.ENO

NAME	ENO	MGR NAME	MGR ENO
King	783	-	-
Jones	756	King	783
Clark	778	King	783
Blake	769	King	783
Ward	752	Blake	769
Allan	749	Blake	769
Turner	784	Blake	769
Ford	792	Jones	756
Scott	788	Jones	756
James	790	Blake	769
Smith	736	James	790
Miller	793	Scott	788
Adams	787	Clark	778
Martin	765	Blake	769

35) 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 DNO IN (SELECT DNO FROM EMPLOYEE WHERE ENAME LIKE '%t%' OR ENAME LIKE '%T%') AND SALARY > (SELECT avg(SALARY) FROM EMPLOYEE)

ENO	ENAME	SALARY
749	Allan	2000
769	Blake	2870
788	Scott	2850
792	Ford	2600
756	Jones	2300

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 ENAME, DNO, SALARY FROM EMPLOYEE WHERE (DNO,SALARY) IN (SELECT DNO,SALARY FROM EMPLOYEE WHERE COMMISSION > 0)

ENAME	DNO	SALARY
Ward	30	1300
Allan	30	2000
Martin	30	1250

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

SELECT ENAME, HIRE_DATE FROM EMPLOYEE

WHERE HIRE_DATE > (SELECT HIRE_DATE FROM EMPLOYEE WHERE ENAME='Blake')

ENAME	HIRE_DATE
King	17-NOV-81
Clark	09-JUN-81
Turner	08-SEP-81
Ford	03-DEC-81
Scott	09-DEC-82
James	03-DEC-81
Miller	23-JAN-82
Adams	12-JAN-83

38) 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 E.ENAME "NAME", E.HIRE_DATE "HIRE_DATE", M.ENAME "MGR'S NAME", M.HIRE_DATE "MGR HIRE_DATE" FROM EMPLOYEE E, EMPLOYEE M WHERE E.MANAGER = M.ENO AND E.HIRE_DATE < M.HIRE_DATE

NAME	HIRE_DATE	MGR'S NAME	MGR HIRE_DATE
Jones	02-APR-81	King	17-NOV-81
Clark	09-JUN-81	King	17-NOV-81
Blake	01-MAY-81	King	17-NOV-81
Ward	22-FEB-81	Blake	01-MAY-81
Allan	20-FEB-81	Blake	01-MAY-81
Smith	17-DEC-80	James	03-DEC-81
Miller	23-JAN-82	Scott	09-DEC-82
Martin	22-APR-81	Blake	01-MAY-81

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

SELECT ENAME, rpad('*',round(SALARY/100),'*') "SALARY" FROM EMPLOYEE

ENAME	SALARY
King	******
Jones	*******
Clark	******
Blake	*******
Ward	*****
Allan	******
Turner	*****
Ford	*******
Scott	******
James	*****
Smith	******
Miller	*****
Adams	******
Martin	******

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

SELECT max(SALARY) "HIGHEST", min(SALARY) "LOWEST", sum(SALARY) "SUM", round(avg(SALARY),2) "AVERAGE"

FROM EMPLOYEE

HIGHEST	LOWEST	SUM	AVERAGE
2950	950	26870	1919.29

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", round(avg(SALARY),2) "AVERAGE" FROM EMPLOYEE GROUP BY JOB_TYPE

JOB_TYPE	HIGHEST	LOWEST	SUM	AVERAGE
Manager	2900	2300	8070	2690
Analyst	2850	2600	5450	2725
Clerk	1300	950	4400	1100
President	2950	2950	2950	2950
Sales_man	2000	1250	6000	1500

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

SELECT JOB_TYPE, count(*)"NO OF EMPLOYEES" FROM EMPLOYEE GROUP BY JOB_TYPE

JOB_TYPE	NO OF EMPLOYEES
Manager	3
Analyst	2
Clerk	4
President	1
Sales_man	4

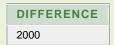
43) Query to display the no. of managers without listing their names.

SELECT count(*)"NO OF MANAGERS" FROM EMPLOYEE WHERE JOB_TYPE = 'Manager'



44) Query to display the Difference b/w the Highest and Lowest Salaries.

SELECT max(SALARY)- min(SALARY) "DIFFERENCE" FROM EMPLOYEE



45) 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)"MINIMUM SALARY"
FROM EMPLOYEE
GROUP BY MANAGER
HAVING min(SALARY) >= 1000 AND MANAGER IS NOT NULL

MANAGER	MINIMUM SALARY
778	1150
788	1300
756	2600
790	1000
783	2300

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

SELECT DNAME, LOCATION, count(*)"NO OF EMPLOYEES", round(avg(SALARY),2)"AVERAGE SALARY"

FROM EMPLOYEE E, DEPARTMENT D

WHERE E.DNO = D.DNO

GROUP BY D.DNO, DNAME, LOCATION

DNAME	LOCATION	NO OF EMPLOYEES	AVERAGE SALARY
Operation	Boston	1	1300
Research	Dallas	5	1980
Accounting	New York	2	2925
Sales	Chicago	6	1636.67

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

SELECT ENAME, HIRE_DATE

FROM EMPLOYEE

WHERE DNO IN (SELECT DNO FROM EMPLOYEE WHERE ENAME='Blake')

ENAME	HIRE_DATE
Martin	22-APR-81
James	03-DEC-81
Turner	08-SEP-81
Allan	20-FEB-81
Ward	22-FEB-81
Blake	01-MAY-81

48) Query to display the Employee No. & Name for all employees who earn more than the average salary.

SELECT ENO, ENAME

FROM EMPLOYEE

WHERE SALARY > (SELECT avg(SALARY) FROM EMPLOYEE)

ENO	ENAME
783	King
756	Jones
778	Clark
769	Blake
749	Allan
792	Ford
788	Scott

49) 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, DNO FROM EMPLOYEE WHERE ENAME LIKE '%T%' OR ENAME LIKE '%t%')

ENO	ENAME	DNO
765	Martin	30
790	James	30
784	Turner	30
749	Allan	30
752	Ward	30
769	Blake	30
787	Adams	20
736	Smith	20
788	Scott	20
792	Ford	20
756	Jones	20

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
Jones	2300
Clark	2900
Blake	2870

51) Query to display the Department No, Name & Job for all employees in the Sales Dept.

SELECT DNO, ENAME, JOB_TYPE
FROM EMPLOYEE
WHERE DNO = (SELECT DNO FROM DEPARTMENT WHERE DNAME = 'Sales')

DNO	ENAME	JOB_TYPE
30	Blake	Manager
30	Ward	Sales_man
30	Allan	Sales_man
30	Turner	Sales_man
30	James	Clerk
30	Martin	Sales_man

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

SELECT M.ENAME FROM EMPLOYEE E, EMPLOYEE M WHERE E.MANAGER = M.ENO GROUP BY M.ENO, M.ENAME, M.SALARY HAVING M.SALARY > avg(E.SALARY)

ENAME
Scott
Clark
King
Blake