**SQL>** *desc employee;*

|  |  |  |
| --- | --- | --- |
| **NAME** | **NULL?** | **TYPE** |
| ENO | NOT NULL | CHAR (3) |
| ENAME | NOT NULL | VARCHAR2 (50) |
| JOB\_TYPE | NOT NULL | VARCHAR2 (50) |
| MANAGER |  | CHAR (3) |
| HIRE\_DATE | NOT NULL | DATE |
| DNO |  | NUMBER (3) |
| COMMISION |  | NUMBER (10,2) |
| SALARY | NOT NULL | NUMBER (7,2) |
|  |  |  |

**SQL>** *desc department;*

|  |  |  |
| --- | --- | --- |
| **NAME** | **NULL?** | **TYPE** |
| DNO | NOT NULL | NUMBER(3) |
| DNAME |  | VARCHAR2(50) |
| LOCATION |  | VARCHAR2(50) |

**EMPLOYEE TABLE:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **ENO** | **ENAME** | **JOB\_TYPE** | **MAN** | **HIRE\_DATE** | **DNO** | **COMMISION** | **SALARY** |
| 783 | King | President | NULL | 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 |
| 765 | Martin | Sales\_man | 783 | 22-APR-81 | 30 | 1400 | 1250 |
| 756 | Jones | Manager | 783 | 02-APR-81 | 20 | 0 | 2300 |
| 752 | Ward | Sales\_man | 769 | 22-FEB-81 | 30 | 500 | 1300 |
| 749 | Allan | Sales\_man | 769 | 20-FEB-81 | 30 | 300 | 2000 |
| 792 | Ford | Analyst | 756 | 3-DEC-81 | 20 | 0 | 2600 |
| 790 | James | Clerk | 769 | 3-Dec-81 | 30 | 0 | 950 |
| 787 | Adams | Clerk | 778 | 12-JAN-83 | 20 | 0 | 1150 |
| 784 | Turner | Sales\_man | 769 | 08-SEP-81 | 30 | 0 | 1450 |
| 788 | Scott | Analyst | 756 | 9-Dec-82 | 20 | 0 | 2850 |

**DEPARTMENT TABLE:**

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

**Query 1: Query to display Employee Name, Job, Hire date, Employee Number, for each employee with the Employee Number appearing first.**

**SQL>** *select eno,ename,job\_type,hire\_date from employee;*

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

**Query 2: Query to display unique jobs from the employee table.**

**SQL>** *select distinct (job\_type) from employee;*

**JOB\_TYPE**

Manager

Analyst

Clerk

President

Sales\_man

**Query 3: Query to display the employee name concatenated by a job separated by a comma.**

**SQL>** *select ename||','||job\_type from employee;*

**ENAME||','||JOB\_TYPE**

King,President

Clark,Manager

Blake,Manager

Martin,Sales\_man

Jones,Manager

Ward,Sales\_man

Allan,Sales\_man

Ford,Analyst

James,Clerk

Adams,Clerk

Turner,Sales\_man

Scott,Analyst

Smith,Clerk

Miller,Clerk

**Query 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.**

**SQL>** *select eno ||','||ename||','||job\_type||','||manager||','||hire\_date||','||dno||','||*

*commision||','||salary THE\_OUTPUT from employee;*

**THE\_OUTPUT**

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

765, Martin, Sales\_man, 783, 22-APR-81, 30, 1400, 1250

756, Jones, Manager 783, 02-APR-81, 20, 0, 2300

752, Ward, Sales\_man, 769, 22-FEB-81, 30, 500, 1300

749, Allan, Sales\_man, 769, 20-FEB-81, 30, 300, 2000

792, Ford, Analyst, 756, 03-DEC-81, 20, 0, 2600

790, James, Clerk, 769, 03-DEC-81, 30, 0, 950

787, Adams, Clerk, 778, 12-JAN-83, 20, 0, 1150

784, Turner, Sales\_man, 769, 08-SEP-81, 30, 0, 1450

788, Scott, Analyst, 756, 09-DEC-82, 20, 0, 2850

736, Smith, Clerk, 790, 17-DEC-80, 20, 0, 1000

793, Miller, Clerk, 788, 23-JAN-80, 40, 0, 130

**Query 5: Query to display the employee name and salary of all the employees earning more than $2850.**

**SQL>** *select ename, salary from employee where salary>2850;*

|  |  |
| --- | --- |
| **ENAME** | **SALARY** |
| King | 2950 |
| Clark | 2900 |
| Blake | 2870 |
|  |  |

**Query 6: Query to display employee name and department number for the employee number=790.**

**SQL>** *select ename ,dno from employee where eno=790;*

**ENAME DNO**

James 30

**Query 7: Query to display Employee name and salary for all employees whose salary is not in the range of $1500 and $2850.**

**SQL>***select ename,salary from employee where salary not between 1500 and 2850;*

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

**Query 8: Query to display Employee Name, Job, and Hire date of all the employees and hired between Feb 20, 1981 and May 1, 1981. Order the query in ascending order of Start date.**

**SQL>** *select ename,job\_type,hire\_date from employee where hire\_date between '20-FEB-81' AND '1-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

**Query 9: Query to display Employee Name and Department Number of all the employees in Dept 10 and Dept 30 in the alphabetical order by name.**

**SQL>** *select ename,eno from employee where dno=10 or dno=30 order by ename;*

|  |  |
| --- | --- |
| **ENAME** | **ENO** |
| Allan | 749 |
| Blake | 769 |
| Clark | 778 |
| James | 790 |
| King | 783 |
| Martin | 765 |
| Turner | 784 |
| Ward | 752 |

**Query 10: Query to display Employee Name and salary of employees who earned more than $1500 and are in department 10 or 30.**

**SQL>** *select ename,salary from employee where salary>1500 and (dno=10 or dno=30);*

|  |  |
| --- | --- |
| **ENAME** | **SALARY** |
| King | 2950 |
| Clark | 2900 |
| Blake | 2870 |
| Allan | 2000 |

**Query 11: Query to display name and hire date of every employee who was hired in 1981**

**SQL>** *select ename , hire\_date from employee where hire\_date like '%81';*

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

**Query 12: Query to display Name and Job of all employees who don’t have a current Manager.**

**SQL>** *select ename ,hire\_date from employee where manager is null;*

**ENAME HIRE\_DATE**

King 17-NOV-81

**Query 13: Query to display the Name, Salary and Commission for all the employees who earn commission. Sort the data in descending order of salary and commission.**

**SQL>** *select ename,salary,commission from employee where commision>0.00 order by salary desc , commision desc;*

**ENAME SALARY COMMISION**

Allan 2000 300

Ward 1300 500

Martin 1250 1400

**Query 14: Query to display Name of all the employees where the third letter of their name is ‘A’.**

**SQL>** *select ename from employee where ename like '\_\_a%';*

**ENAME**

Clark

Blake

Adams

**Query 15: Query to display Name of all employees either have ‘R’s or have two ‘A’s in their name and are either in Department Number= 30 or their Manager’s Employee No=788.**

**SQL>***select ename from employee where lower (ename) like '%r%r%' or lower(ename) like '%a%a%') and (dno=30 or manager=788) ;*

**ENAME**

Allan

Turner

**Query 16: Query to display Nmae , Job and Salary of all employees whose job is Clerical or Analyst and their salaries are not equal to 1000,3000 or 5000.**

**SQL>***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 |
| James | Clerk | 950 |
| Adams | Clerk | 1150 |
| Scott | Analyst | 2850 |
| Miller | Clerk | 1300 |

**Query 17: Query to display Name , Salary and Commission for all employees whose Commission Amount is greater than their Salary increased by 5%.**

**SQL>***select ename, salary ,commission from employee where commision > (salary+salary\*0.05);*

**ENAME SALARY COMMISION**

Martin 1250 1400

**Query 18: Query to display the current date .**

**SQL>** *select sysdate from dual;*

**SYSDATE**

19-OCT-15

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

**SQL>***select eno,ename, salary ,abs(round(salary+salary\*0.15,0)) INCREASED from employee ;*

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

**Query 20: Query to display Name, Hire Date and Salary Review Date which is the 1st Monday after six months of employment.**

**SQL>** *select ename,hire\_date,next\_day(add\_months(hire\_date,6),'Monday') "Salary Review Date" from employee;*

|  |  |  |
| --- | --- | --- |
| **ENAME** | **HIRE\_DATE** | **Salary Review Date** |
| King | 17-NOV-81 | 24-MAY-82 |
| Clark | 09-JUN-81 | 14-DEC-81 |
| Blake | 01-MAY-81 | 02-NOV-81 |
| Martin | 22-APR-81 | 26-OCT-81 |
| Jones | 02-APR-81 | 05-OCT-81 |
| Ward | 22-FEB-81 | 24-AUG-81 |
| Allan | 20-FEB-81 | 24-AUG-81 |
| Ford | 03-DEC-81 | 07-JUN-82 |
| James | 03-DEC-81 | 07-JUN-82 |
| Adams | 12-JAN-83 | 18-JUL-83 |
| Turner | 08-SEP-81 | 15-MAR-82 |
| Scott | 09-DEC-82 | 13-JUN-83 |
| Smith | 17-DEC-80 | 22-JUN-81 |
| Miller | 23-JAN-80 | 28-JUL-80 |

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

**SQL>***select \* from employee E where salary>(select max(salary) from employee where job\_type='Clerk') ;*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **ENO** | **ENAME** | **JOB\_TYPE** | **MAN** | **HIRE\_DATE** | **DNO** | **COMMISION** | **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 |
| 756 | Jones | Manager | 783 | 02-APR-81 | 20 | 0 | 2300 |
| 749 | Allan | Sales\_man | 769 | 20-FEB-81 | 30 | 300 | 2000 |
| 792 | Ford | Analyst | 756 | 03-DEC-81 | 20 | 0 | 2600 |
| 784 | Turner | Sales\_man | 769 | 08-SEP-81 | 30 | 0 | 1450 |
| 788 | Scott | Analyst | 756 | 09-DEC-82 | 20 | 0 | 2850 |
|  |  |  |  |  |  |  |  |

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

**SQL>***select ename,months\_between(sysdate,hire\_date) MONTHS from employee;*

**ENAME MONTHS**

|  |  |
| --- | --- |
| King | 405.916627 |
| Clark | 411.174692 |
| Blake | 412.432756 |
| Martin | 412.755337 |
| Jones | 413.400498 |
| Ward | 414.755337 |
| Allan | 414.819853 |
| Ford | 405.36824 |
| James | 405.36824 |
| Adams | 392.077918 |
| Turner | 408.20695 |
| Scott | 393.174692 |
| Smith | 416.916627 |
| Miller | 427.723079 |

**Query 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.**

**SQL>***select ename || ' earns ' || salary || ' monthly but wants ' || ( 3\*salary) "DREAM SALARY" from employee;*

**DREAM SALARY**

King earns 2950 monthly but wants 8850

Clark earns 2900 monthly but wants 8700

Blake earns 2870 monthly but wants 8610

Martin earns 1250 monthly but wants 3750

Jones earns 2300 monthly but wants 6900

Ward earns 1300 monthly but wants 3900

Allan earns 2000 monthly but wants 6000

Ford earns 2600 monthly but wants 7800

James earns 950 monthly but wants 2850

Adams earns 1150 monthly but wants 3450

Turner earns 1450 monthly but wants 4350

Scott earns 2850 monthly but wants 8550

Smith earns 1000 monthly but wants 3000

Miller earns 1300 monthly but wants 3900

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

**SQL>** *select ename, lpad(salary,15,'$') from employee*;

**ENAME LPAD(SALARY,15,’$’)**

|  |  |
| --- | --- |
| King | $$$$$$$$$$$2950 |
| Clark | $$$$$$$$$$$2900 |
| Blake | $$$$$$$$$$$2870 |
| Martin | $$$$$$$$$$$1250 |
| Jones | $$$$$$$$$$$2300 |
| Ward | $$$$$$$$$$$1300 |
| Allan | $$$$$$$$$$$2000 |
| Ford | $$$$$$$$$$$2600 |
| James | $$$$$$$$$$$$950 |
| Adams | $$$$$$$$$$$1150 |
| Turner | $$$$$$$$$$$1450 |
| Scott | $$$$$$$$$$$2850 |
| Smith | $$$$$$$$$$$1000 |
| Miller | $$$$$$$$$$$1300 |

**Query 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’.**

**SQL>** *select initcap(ename),length(ename) from employee where ename like 'J%' or ename like 'A%' or ename like 'M%';*

**INITCAP(ENAME) LENGTH(ENAME)**

|  |  |
| --- | --- |
| Martin | 6 |
| Jones | 5 |
| Allan | 5 |
| James | 5 |
| Adams | 5 |
| Miller | 6 |

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

**SQL>***select ename,hire\_date,to\_char(hire\_date,'Day') "Day" from employee;*

|  |  |  |
| --- | --- | --- |
| **ENAME** | **HIRE\_DATE** | **Day** |
| King | 17-NOV-81 | Tuesday |
| Clark | 09-JUN-81 | Tuesday |
| Blake | 01-MAY-81 | Friday |
| Martin | 22-APR-81 | Wednesday |
| Jones | 02-APR-81 | Thursday |
| Ward | 22-FEB-81 | Sunday |
| Allan | 20-FEB-81 | Friday |
| Ford | 03-DEC-81 | Thursday |
| James | 03-DEC-81 | Thursday |
| Adams | 12-JAN-83 | Wednesday |
| Turner | 08-SEP-81 | Tuesday |
| Scott | 09-DEC-82 | Thursday |
| Smith | 17-DEC-80 | Wednesday |
| Miller | 23-JAN-80 | Wednesday |

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

**SQL>**

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

**SQL>** *select ename,dname,E.dno from Employee E, department D where E.dno=D.dno;*

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

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

**SQL>** *select distinct(job\_type) from employee where dno=30;*

**JOB\_TYPE**

Manager

Clerk

Sales\_man

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

**SQL>** *select ename, dname, location from employee E, department D where commision>0.00 and E.dno=d.dno;*

**ENAME DNAME LOCATION**

Martin Sales Chicago

Ward Sales Chicago

Allan Sales Chicago

**Query 31Query to display Name, Dept Name of all employees who have an ‘A’ in their name.**

**SQL>** *select ename , dname from employee E, department D where E.dno=D.dno and lower(ename) like '%a%';*

**ENAME DNAME**

Clark Accounting

Blake Sales

Martin Sales

Ward Sales

Allan Sales

James Sales

Adams Research

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

**SQL>** *select ename,job\_type,E.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 |
| Adams | Clerk | 20 | Research |
| Scott | Analyst | 20 | Research |
| Smith | Clerk | 20 | Research |

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

**SQL>** *select E.ename,E.eno,M.ename,M.eno from employee E, employee M where E.manager=M.eno;*

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

**Query 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.**

**SQL>** *select E.ename,E.eno,M.ename,M.eno from (employee E LEFT OUTER JOIN employee M ON E.manager=M.eno;*

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

**Query 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.**

**SQL>** *select eno,ename,salary from employee E where salary>(select avg(salary) from employee) and exists(select \* from employee S where E.dno=S.dno and lower(S.ename) like '%t%');*

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

**Query 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.**

**SQL>***select ename, E.dno, E.salary from employee E where E.dno IN (select C.dno from employee C where C.commision>0) and E.salary IN (select S.sal from employee S where S.commision>0);*

|  |  |  |
| --- | --- | --- |
| **ENAME** | **DNO** | **SALARY** |
| Allan | 30 | 2000 |
| Ward | 30 | 1300 |
| Martin | 30 | 1250 |

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

**SQL>***select ename,hire\_date from employee where months\_between(hire\_date,(select hire\_date from employee where ename='Blake'))>=0;*

|  |  |
| --- | --- |
| **ENAME** | **HIRE\_DATE** |
| King | 17-NOV-81 |
| Clark | 09-JUN-81 |
| Blake | 01-MAY-81 |
| Ford | 03-DEC-81 |
| James | 03-DEC-81 |
| Adams | 12-JAN-83 |
| Turner | 08-SEP-81 |
| Scott | 09-DEC-82 |

**Query 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.**

**SQL>***select E.ename,E.hire\_date,M.ename,M.hire\_date from employee E, Employee M where E.manager=M.eno and E.hire\_date<M.hire\_date ;*

|  |  |  |  |
| --- | --- | --- | --- |
| **ENAME** | **HIRE\_DATE** | **ENAME** | **HIRE\_DATE** |
| Clark | 09-JUN-81 | King | 17-NOV-81 |
| Blake | 01-MAY-81 | King | 17-NOV-81 |
| Martin | 22-APR-81 | King | 17-NOV-81 |
| Jones | 02-APR-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-80 | Scott | 09-DEC-82 |

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

**SQL>** select *eno||' '||rpad(' ',(round(salary/100))+1,'\*') from employee order by salary desc;*

|  |  |
| --- | --- |
| **ENO** | **||''||RPAD('',(ROUND(SALARY/100))+1,'\*')** |
| 783 | \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |
| 778 | \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |
| 769 | \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |
| 788 | \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |
| 792 | \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |
| 756 | \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |
| 749 | \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |
| 784 | \*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |
| 752 | \*\*\*\*\*\*\*\*\*\*\*\*\* |
| 793 | \*\*\*\*\*\*\*\*\*\*\*\*\* |
| 765 | \*\*\*\*\*\*\*\*\*\*\*\*\* |
| 787 | \*\*\*\*\*\*\*\*\*\*\*\* |
| 736 | \*\*\*\*\*\*\*\*\*\* |
| 790 | \*\*\*\*\*\*\*\*\*\* |

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

**SQL>** *select max(salary),min(salary),sum(salary),avg(salary) from employee;*

|  |  |  |  |
| --- | --- | --- | --- |
| **MAX(SALARY)** | **MIN(SALARY)** | **SUM(SALARY)** | **AVG(SALARY)** |
| 2950 | 950 | 26870 | 1919.28571 |

**Query 41 Query to display Highest, Lowest, Sum and Average Salary for each unique Job Type**

**SQL>** *select max(salary), min(salary), sum(salary), avg(salary) from employee group by job\_type;*

|  |  |  |  |
| --- | --- | --- | --- |
| **MAX(SALARY)** | **MIN(SALARY)** | **SUM(SALARY)** | **AVG(SALARY)** |
| 2900 | 2300 | 8070 | 2690 |
| 2850 | 2600 | 5450 | 2725 |
| 1300 | 950 | 4400 | 1100 |
| 2950 | 2950 | 2950 | 2950 |
| 2000 | 1250 | 6000 | 1500 |

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

**SQL>** *select count(\*) from employee group by job\_type;*

**COUNT(\*)**

3

2

4

1

4

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

**SQL>** *select count(distinct(manager)) from employee;*

**COUNT(DISTINCT(MANAGER))**

6

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

**SQL>** *select max(salary)-min(salary) from employee;*

**MAX(SALARY)-MIN(SALARY)**

2000

**Query 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.**

**SQL>** *select manager, min (salary) MINSAL from employee where manager IS NOT NULL group by manager having min (salary)>1000;*

**MAN MINSAL**

778 1150

788 1300

756 2600

783 1250

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

**SQL>***select D.dname,D.location,count(E.eno),avg(E.salary) from employee E, Department D where E.dno=D.dno group by D.dname,D.location ;*

|  |  |  |  |
| --- | --- | --- | --- |
| **DNAME** | **LOCATION** | **COUNT(E.ENO)** | **AVG(E.SALARY)** |
| Research | Dallas | 5 | 1980 |
| Sales | Chicago | 6 | 1636.66667 |
| Accounting | New York | 2 | 2925 |
| Operation | Boston | 1 | 1300 |

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

**SQL>** *select E.ename , E.hire\_date from employee E where E.dno IN(select dno from employee where ename='Blake');*

|  |  |
| --- | --- |
| **ENAME** | **HIRE\_DATE** |
| Turner | 08-SEP-81 |
| James | 03-DEC-81 |
| Allan | 20-FEB-81 |
| Ward | 22-FEB-81 |
| Martin | 22-APR-81 |
| Blake | 01-MAY-81 |

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

**SQL>** *select eno, ename from employee where salary>(select avg(salary) from employee);*

**ENO ENAME**

783 King

778 Clark

769 Blake

756 Jones

749 Allan

792 Ford

788 Scott

**Query 49 Query to display Employee Number & Name for all employees who work in a department with any employee whose name contains a ‘T’.**

**SQL>** *select eno,ename from employee where dno =ANY( select dno from employee where lower(ename) like '%t%');*

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

**Query 50 Query to display the employee name and salary of all employees who report to King.**

**SQL>** *select ename , salary from employee where manager=(select eno from employee where ename='King');*

|  |  |
| --- | --- |
| **ENAME** | **SALARY** |
| Clark | 2900 |
| Blake | 2870 |
| Martin | 1250 |
| Jones | 2300 |

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

**Dept.**

**SQL>** *select E.dno, E.ename from employee E, department D where E.dno=D.dno and D.dname='Sales';*

**DNO ENAME**

30 Blake

30 Martin

30 Ward

30 Allan

30 James

30 Turner

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

// If job type is being considered

**SQL>***select ename from employee E where job\_type='Manager' and salary>(select avg(salary) from employee S where E.dno=S.dno);*

**ENAME**

Blake

Jones

// If manager of employees are considered here.

**SQL>** *select ename from employee S where S.eno IN (select distinct (manager) from employee) and salary>(select avg(salary) from employee M where M.manager=S.eno);*

**ENAME**

King

Blake

Clark

Scott