SELECTING DATA FROM A SINGLE TABLE

EXERCISES

1.             Display all columns from the emp table (containing information about employees) as shown below:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **EMPNO** | **ENAME** | **JOB** | **MGR** | **HIREDATE** | **MONTHLY\_SAL** | **COMMISSION** | **DEPTNO** |
| 7369 | SMITH | CLERK | 7902 | 1980-12-17 | 800 | NULL | 20 |
| 7499 | ALLEN | SALESMAN | 7698 | 1981-02-20 | 1600 | 300 | 30 |
| 7521 | WARD | SALESMAN | 7698 | 1981-02-22 | 1250 | 500 | 30 |
| 7566 | JONES | MANAGER | 7839 | 1981-04-02 | 2975 | NULL | 20 |
| 7654 | MARTIN | SALESMAN | 7698 | 1981-09-28 | 1250 | 1400 | 30 |
| 7698 | BLAKE | MANAGER | 7839 | 1981-05-01 | 2850 | NULL | 30 |
| 7782 | CLARK | MANAGER | 7839 | 1981-06-09 | 2450 | NULL | 10 |
| 7788 | SCOTT | ANALYST | 7566 | 1982-12-09 | 3000 | NULL | 20 |
| 7839 | KING | PRESIDENT |  | 1981-11-17 | 5000 | NULL | 10 |
| 7844 | TURNER | SALESMAN | 7698 | 1981-09-08 | 1500 | 0 | 30 |
| 7876 | ADAMS | CLERK | 7788 | 1983-01-12 | 1100 | NULL | 20 |
| 7900 | JAMES | CLERK | 7698 | 1981-12-03 | 950 | NULL | 30 |
| 7902 | FORD | ANALYST | 7566 | 1981-12-03 | 3000 | NULL | 20 |
| 7934 | MILLER | CLERK | 7782 | 1982-01-23 | 1300 | NULL | 10 |

2.         Display the same details as question 1 but in employee name order

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **EMPNO** | **ENAME** | **JOB** | **MGR** | **HIREDATE** | **MONTHLY\_SAL** | **COMMISSION** | **DEPTNO** |
| 7876 | ADAMS | CLERK | 7788 | 1983-01-12 | 1100 | NULL | 20 |
| 7499 | ALLEN | SALESMAN | 7698 | 1981-02-20 | 1600 | 300 | 30 |
| 7698 | BLAKE | MANAGER | 7839 | 1981-05-01 | 2850 | NULL | 30 |
| 7782 | CLARK | MANAGER | 7839 | 1981-06-09 | 2450 | NULL | 10 |
| 7902 | FORD | ANALYST | 7566 | 1981-12-03 | 3000 | NULL | 20 |
| 7900 | JAMES | CLERK | 7698 | 1981-12-03 | 950 | NULL | 30 |
| 7566 | JONES | MANAGER | 7839 | 1981-04-02 | 2975 | NULL | 20 |
| 7839 | KING | PRESIDENT |  | 1981-11-17 | 5000 | NULL | 10 |
| 7654 | MARTIN | SALESMAN | 7698 | 1981-09-28 | 1250 | 1400 | 30 |
| 7934 | MILLER | CLERK | 7782 | 1982-01-23 | 1300 | NULL | 10 |
| 7788 | SCOTT | ANALYST | 7566 | 1982-12-09 | 3000 | NULL | 20 |
| 7369 | SMITH | CLERK | 7902 | 1980-12-17 | 800 | NULL | 20 |
| 7844 | TURNER | SALESMAN | 7698 | 1981-09-08 | 1500 | 0 | 30 |
| 7521 | WARD | SALESMAN | 7698 | 1981-02-22 | 1250 | 500 | 30 |

3.         Display all columns for employees who are salesmen:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **EMPNO** | **ENAME** | **JOB** | **MGR** | **HIREDATE** | **MONTHLY\_SAL** | **COMMISSION** | **DEPTNO** |
| 7499 | ALLEN | SALESMAN | 7698 | 1981-02-20 | 1600 | 300 | 30 |
| 7521 | WARD | SALESMAN | 7698 | 1981-02-22 | 1250 | 500 | 30 |
| 7654 | MARTIN | SALESMAN | 7698 | 1981-09-28 | 1250 | 1400 | 30 |
| 7844 | TURNER | SALESMAN | 7698 | 1981-09-08 | 1500 | 0 | 30 |

4          Display the same details for those with monthly salaries greater than 2500

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **EMPNO** | **ENAME** | **JOB** | **MGR** | **HIREDATE** | **MONTHLY\_SAL** | **COMMISSION** | **DEPTNO** |
| 7566 | JONES | MANAGER | 7839 | 1981-04-02 | 2975 | NULL | 20 |
| 7698 | BLAKE | MANAGER | 7839 | 1981-05-01 | 2850 | NULL | 30 |
| 7788 | SCOTT | ANALYST | 7566 | 1982-12-09 | 3000 | NULL | 20 |
| 7839 | KING | PRESIDENT |  | 1981-11-17 | 5000 | NULL | 10 |
| 7902 | FORD | ANALYST | 7566 | 1981-12-03 | 3000 | NULL | 20 |

5.                  Display ename, job, hiredate and deptno for employees hired on or after 1st Jan 1982

|  |  |  |  |
| --- | --- | --- | --- |
| **ENAME** | **JOB** | **HIREDATE** | **DEPTNO** |
| SCOTT | ANALYST | 1982-12-09 | 20 |
| ADAMS | CLERK | 1983-01-12 | 20 |
| MILLER | CLERK | 1982-01-23 | 10 |

6.                   Display the ename, job, commission and deptno for employees with commission earnings (even if zero)

|  |  |  |  |
| --- | --- | --- | --- |
| **ENAME** | **JOB** | **COMMISSION** | **DEPTNO** |
| ALLEN | SALESMAN | 300 | 30 |
| WARD | SALESMAN | 500 | 30 |
| MARTIN | SALESMAN | 1400 | 30 |
| TURNER | SALESMAN | 0 | 30 |

7.         Display the ename, job,mgr, hiredate and commission for employees who either have no manager or are managed by employee number 7782

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ENAME** | **JOB** | **MGR** | **HIREDATE** | **COMMISSION** |
| KING | PRESIDENT |  | 1981-11-17 | NULL |
| MILLER | CLERK | 7782 | 1982-01-23 | NULL |

8.         Display the ename, job, mgr, hiredate and commission for employees are either managed by employee number 7566 or are earning commission (even if zero).  Add a further condition to only display employees hired on or after 8th Sep 1981.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ENAME** | **JOB** | **MGR** | **HIREDATE** | **COMMISSION** |
| MARTIN | SALESMAN | 7698 | 1981-09-28 | 1400 |
| SCOTT | ANALYST | 7566 | 1982-12-09 | NULL |
| TURNER | SALESMAN | 7698 | 1981-09-08 | 0 |
| FORD | ANALYST | 7566 | 1981-12-03 | NULL |

9.         Display name, annual salary (monthly salary \* 12) and commission for employees in department 30

|  |  |  |
| --- | --- | --- |
| **ENAME** | **MONTHLY\_SAL\*12** | **COMMISSION** |
| ALLEN | 19200 | 300 |
| WARD | 15000 | 500 |
| MARTIN | 15000 | 1400 |
| BLAKE | 34200 | NULL |
| TURNER | 18000 | 0 |
| JAMES | 11400 | NULL |

10.       Display name and the total annual salary + commission for all employees in department 30.   The heading for the second column should be Annual Earnings.

|  |  |
| --- | --- |
| **ENAME** | **ANNUAL EARNINGS** |
| ALLEN | 19500 |
| WARD | 15500 |
| MARTIN | 16400 |
| BLAKE | 34200 |
| TURNER | 18000 |
| JAMES | 11400 |

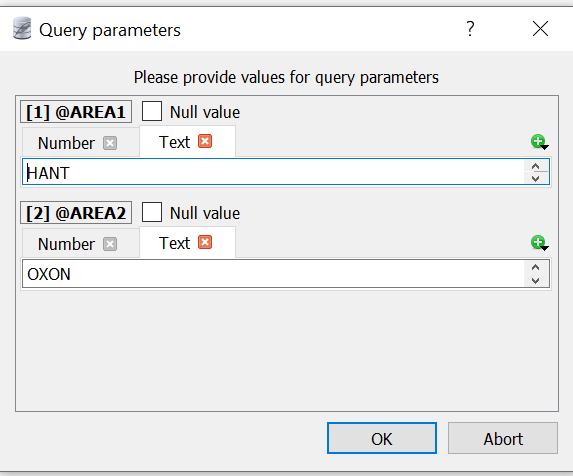
11.          Display employee no and employee name as one column separated by a space (with a column name of Employee) together with what the monthly salary would be if it were increased by 20% for all employees in department 30. The heading for the second column should be Monthly Earnings + 20%.

|  |  |
| --- | --- |
| **EMPLOYEE** | **MONTHLY SALARY + 20%** |
| 7499 ALLEN | 1920 |
| 7521 WARD | 1500 |
| 7654 MARTIN | 1500 |
| 7698 BLAKE | 3420 |
| 7844 TURNER | 1800 |
| 7900 JAMES | 1140 |

12.          Display the same details and column headings as for exercise 11 but for employees in all departments whose names start with A or S.  Sort the output by employee no and employee name.

|  |  |
| --- | --- |
| **EMPLOYEE** | **MONTHLY\_SAL\*1.2** |
| 7369 SMITH | 960 |
| 7499 ALLEN | 1920 |
| 7788 SCOTT | 3600 |
| 7876 ADAMS | 1320 |

13. Display the name and area of customers in either of the two areas entered as parameters by the end user. Enter the two parameters (both as text) as HANT and OXON as shown below



and the following rows should be displayed:

|  |  |
| --- | --- |
| **name** | **area** |
| TKB SPORT SHOP | HANT |
| JUST TENNIS | HANT |
| EVERY MOUNTAIN | OXON |
| K + T SPORTS | HANT |
| SHAPE UP | OXON |
| KW SPORTS | HANT |

14. For all rows in the PRICE table where the enddate is not null, display the prodid, stdprice, startdate, enddate and number of days between the startdate and enddate (using the JULIANDAY function). Display the start and end dates in the format DD/MM/YYYY using the STRFTIME function.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| PRODID | PRICE | STARTDATE | ENDDATE | DURATION IN DAYS |
| 100860 | 30 | 01/01/2004 | 31/12/2004 | 365 |
| 100860 | 35 | 01/01/2005 | 31/05/2005 | 150 |
| 100861 | 39 | 01/01/2004 | 31/12/2004 | 365 |
| 100861 | 45 | 01/01/2005 | 31/05/2005 | 150 |
| 100870 | 2.8 | 01/01/2004 | 01/12/2004 | 335 |
| 100871 | 5.6 | 01/01/2004 | 01/12/2004 | 335 |
| 100890 | 54 | 01/06/2003 | 31/05/2004 | 365 |
| 101860 | 24 | 15/02/2004 | 18/12/2004 | 307 |
| 200376 | 2.4 | 15/11/2003 | 01/02/2004 | 78 |