Table：EMP 員工主檔表格

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| EMPNO  員工編號 | ENAME  姓名 | JOB  職位 | MGR  上級 | HIREDATE  到職日 | SAL  薪資 | COMM  佣金 | DEPTNO  部門 |
| 7369 | SMITH | CLERK | 7902 | 2010/12/17 | 32,000 |  | 20 |
| 7499 | ALLEN | SALESMAN | 7698 | 2011/02/20 | 64,000 | 12,000 | 30 |
| 7521 | WARD | SALESMAN | 7698 | 2011/02/22 | 50,000 | 20,000 | 30 |
| 7566 | JONES | MANAGER | 7839 | 2011/04/02 | 119,000 |  | 20 |
| 7654 | MARTIN | SALESMAN | 7698 | 2011/09/28 | 50,000 | 56,000 | 30 |
| 7698 | BLAKE | MANAGER | 7839 | 2011/05/01 | 114,000 |  | 30 |
| 7782 | CLARK | MANAGER | 7839 | 2011/06/09 | 98,000 |  | 10 |
| 7788 | SCOTT | ANALYST | 7566 | 2017/04/19 | 120,000 |  | 20 |
| 7839 | KING | PRESIDENT |  | 2011/11/17 | 200,000 |  | 10 |
| 7844 | TURNER | SALESMAN | 7698 | 2011/09/08 | 60,000 | 0 | 30 |
| 7876 | ADAMS | CLERK | 7788 | 2017/05/23 | 44,000 |  | 20 |
| 7900 | JAMES | CLERK | 7698 | 2011/12/05 | 38,000 |  | 30 |
| 7902 | FORD | ANALYST | 7566 | 2011/12/03 | 120,000 |  | 20 |
| 7934 | MILLER | CLERK | 7782 | 2012/01/23 | 52,000 |  | 10 |

職位：CLERK 秘書、SALESMAN 業務員、MANAGER 經理、ANALYST 分析師、PRESIDENT 負責人

Table：DEPT 部門主檔表格

|  |  |  |
| --- | --- | --- |
| DEPTNO  部門 | DNAME  部門名稱 | LOC  區域 |
| 10 | ACCOUNTING | NEW YORK |
| 20 | RESEARCH | DALLAS |
| 30 | SALES | CHICAGO |
| 40 | OPERATIONS | BOSTON |

Table：SALGRADE 薪水等級表格

|  |  |  |
| --- | --- | --- |
| GRADE  等級 | LOSAL  最低 | HISAL  最高 |
| 1 | 28,000 | 48,000 |
| 2 | 48,001 | 56,000 |
| 3 | 56,001 | 80,000 |
| 4 | 80,001 | 120,000 |
| 5 | 120,001 | 400,000 |

註1：所有員工＝所有僱員(包含經理,負責人)

註2：辦事員：不含負責人、經理

※※試作 1-29 題中的圈選的題目有10題，另外31-40又10題，總共20題

1. 列出薪資低於40,000的所有員工(包含經理,負責人)

select \*

FROM emp

where SAL < 40000

1. 列出部門30中的所有雇員(包含經理,負責人)

SELECT \*

FROM emp

where DEPTNO=30

1. 列出所有辦事員 (不含負責人、經理)

顯示欄位：姓名, 員工編號, 部門名稱

select ENAME, EMPNO, JOB, DEPTNO

from emp

where JOB not in ('MANAGER', 'PRESIDENT')

1. 找出佣金高於薪資的雇員

select \*

from emp

where COMM > SAL

1. 找出佣金高於(超過)薪資的60%之雇員

select \*

from emp

where COMM > (SAL\*0.6);

1. 找出部門10中所有經理

select \*

from emp

where DEPTNO=10 and JOB like 'MANAGER';

1. 找出部門20中不是經理但是薪資大於80,000的所有僱員資料

select \*

from emp

where DEPTNO = 20 and SAL>80000 and JOB not like 'MANAGER'

1. 找出有收**到**佣金的雇員及其職務

顯示欄位：姓名, 職務, 傭金

select ENAME, JOB, COMM

from emp

where COMM not like 'null'

1. 找出不收取佣金或者佣金小於12,000的僱員

select \*

from emp

where COMM is null or COMM = '0' ;

1. 找出到職日大於13年以上僱員

select \*

from emp

where timestampdiff( year,HIREDATE,curdate())>13

1. 找出早於2012年以前到職員工

select \*

from emp

where HIREDATE < '2012-01-01'

1. 找出姓名為五個字的員工

select \*

from emp

where length(ENAME) = 5;

1. 找出僱員姓名中不帶有"A"的員工

顯示欄位：員工編號, 姓名不帶'A'

select EMPNO, ENAME as 'No A in ENAME'

from emp

where ENAME not like "%A%" and ENAME not like "%a%";

1. (1)顯示所有僱員姓名的前三個字元

(2) 顯示所有僱員姓名的前三個字元，其餘字數使用’\*’替代，以符合個資法。

顯示欄位：姓名, 前3字元

(1)

select ENAME , left(ENAME,3) as '前三個字'

from emp ;

(2)

select ENAME ,

concat ( left ( ENAME , 3 ) , repeat( '\*' , char\_length(ENAME) -3)) as '前三個字元'

from emp ;

1. 顯示"SALESMAN"銷售員的姓名，第一個字替換成"B"

顯示欄位：原姓名, 調整後姓名, 職務

SELECT

ENAME,

CONCAT('B', SUBSTR(ENAME, 2)) AS 'AFTER CHANGE FIRST WORD',

JOB

FROM madb\_n.emp

WHERE JOB = 'SALESMAN';

1. 顯示僱員的詳細資料，按照姓名排序 (由小而大)

select \*

from emp

ORDER BY ENAME ASC;

1. 顯示僱員姓名，按照到職日進行排序，將最老的僱員排列在最前面

顯示欄位：姓名, 到職日

select ENAME, HIREDATE

from emp

order by HIREDATE asc

1. 顯示所有僱員的姓名，職務，跟薪資，按照職務降序排列，職務相同時按薪資升序排列

顯示欄位：姓名, 職務, 薪資

select ENAME, JOB, SAL

from emp

order by JOB desc , SAL ASC

1. 顯示所有僱員一個月以30天為情況下計算僱員日薪(小數1位)。

顯示欄位：姓名, 薪資, 日薪

select ENAME, SAL, ROUND( SAL / 30, 1) as DailySAL

from emp

1. 找出不含傭金(不考量傭金欄位,不管是否有傭金)最高薪資員工名稱。

顯示欄位：姓名, 薪資

select ENAME, SAL

from emp

WHERE SAL = (SELECT MAX(SAL) FROM emp);

1. 找出不限制年份，二月受聘的所有僱員

顯示欄位：姓名, 到職日

select ENAME, HIREDATE

from emp

where MONTH(HIREDATE) = 2 ;

1. 顯示所有僱員，從到職日至現在的天數；按照到職天數遞減

顯示欄位：姓名, 到職日, 到職天數

select ENAME, HIREDATE, DATEDIFF(curdate( ),HIREDATE) as HIREDAYS

from emp

order by HIREDATE asc

1. 查詢姓名中有C的僱員

顯示欄位：員工編號, 姓名有C僱員

select EMPNO, ENAME as 'there has c in ENAME'

from emp

where ENAME like '%C%' and ENAME like '%c%'

1. 請列出最少有一個僱員的所有部門

顯示欄位：部門編號, 部門名稱, 人數

SELECT emp.DEPTNO , dept.DNAME, count(EMPNO) as People\_in\_DEPTNO

from dept

join emp on emp.DEPTNO = dept.DEPTNO

GROUP BY DEPTNO, DNAME;

1. 列出薪資比SMITH還多的所有僱員；按照部門編號排序 (由小而大)

顯示欄位：部門編號, 姓名 , 薪資

select DEPTNO, ENAME, SAL

from emp

where SAL >(select SAL from emp where ENAME='SMITH')

order by DEPTNO asc

1. 列出僱員的姓名與上級主管姓名

顯示欄位：姓名, 主管姓名

select e.ENAME as ENAME, m.ENAME as MGR

from emp e

left join emp m on e.MGR = m.EMPNO

1. 列出到職日早於上級主管的所有僱員

顯示欄位：僱員, 到職日, 主管, 到職日

select e.ENAME as ENAME, e.HIREDATE as HIREDATE, m.ENAME as ENAME, m.HIREDATE as HIREDATE

from emp e

join emp m on e.MGR = m.EMPNO

where e.HIREDATE < m.HIREDATE

1. 列出所有職務為"CLERK"的姓名與其部門名稱

顯示欄位：姓名, 職務, 部門名稱

select emp.ENAME, emp.JOB, dept.DNAME as DEPTNO

from emp

join dept on emp.DEPTNO = dept.DEPTNO

where JOB like 'CLERK'

1. (1)列出各種工作類別的最低薪資；顯示欄位：職務, 最低薪(按照職務排序 由小而大)

(2)列出各種工作類別最低薪資的僱員；顯示欄位：職務, 僱員, 最低薪(排序同上)

(1)select JOB, min(SAL) as min\_salary

from emp

group by job

order by job asc;

(2)select JOB, ENAME, min(SAL) as min\_salary

from emp

group by JOB

order by JOB ASC;

1. 列出跟"SCOTT"員工做相同工作的所有僱員(不含"SCOTT")

顯示欄位：僱員, 職務

select ENAME, JOB

from emp

where JOB =(select JOB from emp where ENAME = 'SMITH')

and ENAME <> 'SMITH'

1. 列出某些雇員的姓名和薪資，條件是他們的薪資等於部門30中任何一個僱員的薪資

顯示欄位：僱員, 薪資

select ENAME, SAL

from emp

where SAL in (SELECT SAL from emp where DEPTNO = 30 )

1. 列出有雇員的部門之訊息與該部門中共有多少僱員數量

顯示欄位：部門編號, 部門名稱, 區域, 人數

select emp.DEPTNO, dept.DNAME, dept.LOC, count(ENAME) as People\_in\_DNAME

from dept

join emp on emp.DEPTNO = dept.DEPTNO

group by emp.DEPTNO, dept.DNAME, dept.LOC;

1. 列出所有僱員的僱員名稱，部門名稱，跟薪資。

顯示欄位：僱員, 部門名稱, 薪資

select emp.ENAME, dept.DNAME, emp.SAL

from emp

join dept on emp.deptno = dept.deptno;

1. 列出分配所有僱員數量的部門詳細訊息，即使該部門沒有僱員(沒有僱員者為0)。

顯示欄位：部門編號, 部門名稱, 區域, 人數

select dept.DEPTNO, dept.DNAME, LOC, count(emp.ENAME) as People\_in\_each\_DNAME

from dept

left join emp on emp.DEPTNO = dept.DEPTNO

group by dept.DEPTNO, dept.DNAME, dept.LOC

1. 列出各種工作類別的最高薪資。(按照職務排序 由小而大)

(1)顯示欄位：職務, 最高薪

(2)顯示欄位：職務, 姓名, 最高薪

(1)select JOB, MAX(SAL) as Highest\_SAL

from emp

group by job

order by job asc;

(2)select JOB, ENAME, MAX(SAL) as Highest\_SAL

from emp

group by JOB

order by JOb asc;

1. 列出各部門的經理最低薪資(所有經理的最低薪資)。

顯示欄位：經理(姓名), 職務, 最低薪

select ENAME as MAG\_ENAME, JOB, SAL as LOWEST\_SAL

from emp

where JOB = 'MANAGER' and SAL = (select MIN(SAL) from emp where JOB = "MANAGER");

1. 列出按照年薪降冪排序所有僱員的年薪(年薪以Sal\*12)

顯示欄位：僱員, 職務, 年薪

select ENAME, JOB, SAL \* 12 as Year\_SAL

from emp

order by SAL DESC;

1. 列出薪資等級為4的所有員工

顯示欄位：僱員, 職務, 薪資, 等級

select emp.ENAME, emp.JOB, emp.SAL, salgrade.GRADE

from emp

join salgrade on emp.SAL between salgrade.LOSAL and salgrade.HISAL

where salgrade.GRADE = 4 ;

1. 列出含傭金+薪資等級為2的員工。

顯示欄位：僱員, 職務, [薪資+傭金], 等級

select emp.ENAME, emp.JOB, (emp.SAL + IFNULL(emp.COMM , 0 )) as TOTAL\_INCOME, salgrade.GRADE

from emp

join salgrade on emp.SAL between salgrade.LOSAL and salgrade.HISAL

where salgrade.GRADE = 2 ;

1. 列出每個部門薪資水平為第二的員工。

顯示欄位：部門編號, 僱員, 職務, 薪資

select DEPTNO, ENAME, JOB, SAL

from emp

join salgrade on emp.SAL between salgrade.LOSAL and salgrade.HISAL

where salgrade.GRADE = 2;