1.Display the subject code, subjects and total marks for every student.

total marks is calculated as (s1+s2+s3...)

select student\_code, subject1, subject2, subject3, (subject1+subject2+subject3) as total from student\_marks;

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Student\_code | Subject1 | Subject2 | Subject3 | Total |
| 1001  1002  1003  1004  1005  1006  1007  1008  1009  1009  1010  1011  1012  1013  1014  1015  1016  1017  1018  1019  1020  1021  1001  1002  1003  1004  1005  1006  1007  1008  1009  1010  1011  1012  1013  1014  1015  1016  1017  1018  1019  1020  1021 | 55  66  87  65  78  65  67  72  71  71  68  89  78  75  73  66  68  69  65  78  45  78  68  89  78  75  73  66  68  69  65  78  45  78  66  65  78  65  67  72  71  55  87 | 45  74  54  64  88  86  79  55  59  59  44  96  56  58  74  45  78  44  78  58  55  79  44  96  56  58  74  45  78  44  78  58  55  79  74  64  88  86  79  55  59  45  54 | 78  88  65  90  65  54  49  55  58  58  92  78  55  65  65  74  74  52  56  74  65  78  92  78  55  65  65  74  74  52  56  74  65  78  88  90  65  54  49  55  58  78  65 | 178  228  206  219  231  205  195  182  188  188  204  263  189  198  212  185  220  165  199  210  165  235  204  263  189  198  212  185  220  165  199  210  165  235  228  219  231  205  195  182  188  178  206 |

2.List the name and designations of the staff who have joined before Jan 2005.

select ename, job ,hiredate from emp where hiredate<'01-jan-2005';

|  |  |  |
| --- | --- | --- |
| Ename | Job | Hiredate |
| SMITH  ALLEN  JONES  MARTIN  BLAKE  CLARK  SCOTT  KING  TURNER  ADAMS  JAMES  FORD  MILLER | CLERK  SALESMAN  MANAGER  SALESMAN  MANAGER  MANAGER  ANALYST  PRESIDENT  SALESMAN  CLERK  CLERK  ANALYST  CLERK | 17-DEC-80  20-FEB-81  02-APR-81  28-SEP-81  01-MAY-81  09-JUN-81  09-DEC-82  17-NOV-81  08-SEP-81  12-JAN-83  03-DEC-81  03-DEC-81  23-JAN-82 |

3. Display the employees for whom the manager is not allocated.

select ename from emp where mgr is null;

|  |
| --- |
| Ename |
| King |

4. Display the details of the books that is not been returned and expected return date was Monday.

select \* from book\_transactions where (book\_expected\_return\_date is null) and (extract(day from book\_expected\_return\_date))/7=2;

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| BOOK\_CODE | STUDENT\_CODE | STAFF\_CODE | BOOK\_ISSUE\_DATE | BOOK\_EXPECTED\_RETURN\_DATE | BOOK\_ACTUAL\_RETURN\_DATE |

5. Check the date of birth of the students and display only those students who were born on saturday or sunday.

select \* from student\_master where (extract (day from student\_dob))/7 in (7,1);

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Student\_code | Student\_name | Dept\_code | Student\_dob | Student\_address |
|  |  |  |  |  |

6. Display the staff name and hire date (through this date find out the day!).

create a new column as DAY in the result nd sort it to start from monday.

select staff\_name,hiredate, to\_char(hiredate, 'd') as Day from staff\_master order by day asc;

|  |  |  |
| --- | --- | --- |
| Staff\_Name | Hiredate | Day |
| John  Anil  Shyam  Allen  Smith  Arvind  Rahul  Ram  Mohan  Raviraj | 21-JAN-01  11-MAR-01  17-FEB-02  23-APR-01  12-MAR-02  15-JAN-03  11-DEC-03  17-JAN-02  19-JAN-02  11-JAN-03 | 1  1  1  2  3  4  5  5  7  7 |

7. Display manager name, manager code and salary of the lowest paid staff in that manager's group.

Exclude that group where the salary is less then 10k. Display other records in desc order.

select s1.staff\_name as manager, s2.mgr\_code, min(s1.staff\_sal)

from staff\_master s1 join staff\_master s2 on s1.staff\_code=s2.mgr\_code

group by s2.mgr\_code, s1.staff\_name,s1.staff\_sal having s1.staff\_sal>10000 order by s1.staff\_sal desc;

|  |  |  |
| --- | --- | --- |
| Manager | Mgr\_code | min(s1.staff\_sal) |
| Smith  Allen  John | 100007  100006  100005 | 62000  42000  32000 |