

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_MARKS
FROM STUDENT_MARKS;
```

STUDENT_CODE	SUBJECT1	SUBJECT2	SUBJECT3	TOTAL_MARKS
1001	55	45	78	178
1002	66	74	88	228
1003	87	54	65	206
1004	65	64	90	219
1005	78	88	65	231
1006	65	86	54	205
1007	67	79	49	195
1008	72	55	55	182
1009	71	59	58	188
1010	68	44	92	204
1011	89	96	78	263
1012	78	56	55	189
1013	75	58	65	198
1014	73	74	65	212
1015	66	45	74	185
1016	68	78	74	220
1017	69	44	52	165
1018	65	78	56	199
1019	78	58	74	210
1020	45	55	65	165
1021	78	79	78	235
1001	68	44	92	204
1002	89	96	78	263
1003	78	56	55	189
1004	75	58	65	198
1005	73	74	65	212
1006	66	45	74	185
1007	68	78	74	220
1008	69	44	52	165
1009	65	78	56	199
1010	78	58	74	210
1011	45	55	65	165
1012	78	79	78	235

1013	66	74	88	228
1014	65	64	90	219
1015	78	88	65	231
1016	65	86	54	205
1017	67	79	49	195
1018	72	55	55	182
1019	71	59	58	188
1020	55	45	78	178
1021	87	54	65	206

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

```
SELECT ENAME, JOB
FROM EMP
WHERE HIREDATE < '01_JAN_2005';
```

ENAME	JOB
SMITH	CLERK
ALLEN	SALESMAN
WARD	SALESMAN
JONES	MANAGER
MARTIN	SALESMAN
BLAKE	MANAGER
CLARK	MANAGER
SCOTT	ANALYST
KING	PRESIDENT
TURNER	SALESMAN
ADAMS	CLERK
JAMES	CLERK
FORD	ANALYST
MILLER	CLERK

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

```
SELECT *
FROM EMP
WHERE MGR IS NULL;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7839	KING	PRESIDENT	-	17-NOV-81	5000	-	10

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

```
select *
from book_transactions
where (book_actual_return_date is NULL) AND
to_char(book_expected_return_date, 'fmday')='monday';
```

NO DATA FOUND

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

```
select student_name, student_dob, to_char(student_dob, 'fmday') as DAY
from student_master
where to_char(student_dob, 'fmday')='saturday' or
to_char(student_dob, 'fmday')='sunday';
```

STUDENT_NAME	STUDENT_DOB	DAY
Ravi	01-NOV-81	sunday
Raj	14-JAN-79	sunday
Arvind	15-JAN-83	saturday
Mehul	17-JAN-82	sunday
Vijay	19-JAN-80	saturday
Rajat	20-JAN-80	sunday
Ramesh	27-DEC-80	saturday
Amit Raj	28-SEP-80	sunday

6. display the staff name and hire date (through this date find out the day!). create a new column as DAY in the result and sort it to start from monday.

```
select ename, to_char(hiredate, 'fmday') as Day
from emp
order by (next_day(hiredate, 'MONDAY') - hiredate) DESC;
```

ENAME	DAY
MARTIN	monday
CLARK	tuesday

TURNER	Tuesday
KING	Tuesday
SMITH	Wednesday
ADAMS	Wednesday
JAMES	Thursday
JONES	Thursday
FORD	Thursday
SCOTT	Thursday
ALLEN	Friday
BLAKE	Friday
MILLER	Saturday
WARD	Sunday

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 mgr, sal,ename
FROM emp
WHERE mgr IS NOT NULL and sal>2000
GROUP BY mgr,sal,ename
ORDER BY sal DESC;
```

MGR	SAL	ENAME
7566	3000	FORD
7566	3000	SCOTT
7839	2975	JONES
7839	2850	BLAKE
7839	2450	CLARK