CASE STUDY 3

ORACLE – SQL

1. Display the subject code, subjects and total marks for every student. total marks is calculated as (s1+s2+s3...)

QUERY:

```
create table s1 as(select * from student_marks where student_year=2010);

create table s2 as(select * from student_marks where student_year=2011);

select s1.student_code, (s1.subject1+s1.subject2+s1.subject3) as total_marks2010,

(s2.subject1+s2.subject2+s2.subject3) as total_marks2011 from s1,s2 where

 s1.student_code=s2.student_code;
```

STUDENT_CODE	TOTAL_MARKS2010	TOTAL_MARKS2011
1001	178	204
1002	228	263
1003	206	189
1004	219	198
1005	231	212
1006	205	185
1007	195	220
1008	182	165
1009	188	199
1010	204	210
1011	263	165
1012	189	235
1013	198	228
1014	212	219
1015	185	231
1016	220	205
1017	165	195
1018	199	182
1019	210	188
1020	165	178
1021	235	206

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

QUERY: select s.staff_name,d.DESIGN_NAME from staff_master s,designation_master d where s.design_code=d.design_code and hiredate < '01-JAN-2005';

STAFF_NAME	DESIGN_NAME
Arvind	Professor
Shyam	Professor
Mohan	Professor
Anil	Professor
John	Director
Allen	Reader
Smith	Reader
Raviraj	Professor
Rahul	Professor
Ram	Reader

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

QUERY: 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.

QUERY: SELECT * FROM book_transactions WHERE book_expected_return_date != book_actual_return_date AND TO_CHAR(BOOK_EXPECTED_RETURN_DATE,'DAY')='MONDAY';

NO OUTPUT

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

QUERY: SELECT STUDENT_NAME FROM student_master WHERE TO_CHAR(STUDENT_DOB,'FMDAY')='SATURDAY' OR TO_CHAR(STUDENT_DOB,'FMDAY')='SUNDAY';

STUDENT_NAME
Ravi
Raj
Arvind
Mehul
Vijay
Rajat
Ramesh
Amit Raj

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.

QUERY: SELECT STAFF_NAME, HIREDATE,TO_CHAR(HIREDATE, 'FMDAY') AS "DAY"

FROM STAFF_MASTER ORDER BY(NEXT_DAY(HIREDATE, 'MONDAY') - HIREDATE) DESC;

STAFF_NAME	HIREDATE	Day
Allen	23-APR-01	Monday
Smith	12-MAR-02	Tuesday
Arvind	15-JAN-03	Wednesday
Rahul	11-DEC-03	Thursday
Ram	17-JAN-02	Thursday
Raviraj	11-JAN-03	Saturday
Mohan	19-JAN-02	Saturday
Anil	11-MAR-01	Sunday
Shyam	17-FEB-02	Sunday
John	21-JAN-01	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.

QUERY: SELECT MGR_CODE, STAFF_SAL,STAFF_NAME FROM STAFF_MASTER WHERE STAFF_SAL>10000

GROUP BY MGR_CODE,STAFF_SAL,STAFF_NAME ORDER BY STAFF_SAL DESC;

MGR_CODE	STAFF_SAL	STAFF_NAME
100005	62000	Smith
100005	42000	Allen
100007	32000	John
100007	32000	Ram
100006	24000	Mohan
100006	22000	Rahul
100006	20000	Anil
100007	20000	Shyam
100006	18000	Raviraj
100006	17000	Arvind