

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: SELECT STUDENT_CODE, SUBJECT1+SUBJECT2+SUBJECT3 AS TOTAL FROM STUDENT_MARKS;

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

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

QUERY: 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.

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 OR TO_CHAR(BOOK_EXPECTED_RETURN_DATE,'DAY')='MONDAY';

BOOK_CODE	STUDENT_CODE	STAFF_CODE	BOOK_ISSUE_DATE	BOOK_EXPECTED_RETURN_DATE	BOOK_ACTUAL_RETURN_DATE
10000008	(null)	100006	10-MAR-11	17-MAR-11	15-MAR-11
10000009	(null)	100010	01-APR-11	08-APR-11	10-APR-11
10000007	(null)	100007	01-APR-11	07-APR-11	06-APR-11
10000007	(null)	100006	01-APR-10	07-APR-10	06-APR-10

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;
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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.

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QUERY: SELECT MGR, SAL,ENAME FROM EMP WHERE MGR IS NOT NULL AND SAL>1000  
GROUP BY MGR,SAL,ENAME ORDER BY SAL DESC;
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MGR	SAL	ENAME
7566	3000	FORD
7566	3000	SCOTT
7839	2975	JONES
7839	2850	BLAKE
7839	2450	CLARK
7698	1600	ALLEN
7698	1500	TURNER
7782	1300	MILLER
7698	1250	MARTIN
7698	1250	WARD
7788	1100	ADAMS