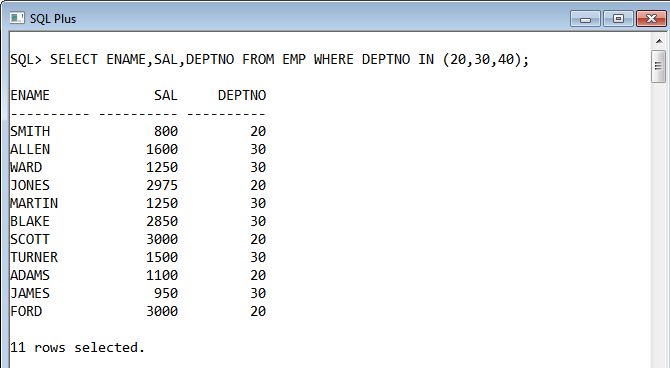
**Lab 1. Data Query Language**

**Q1. Retrieve the details (Name, Salary and dept code) of the employees who are**

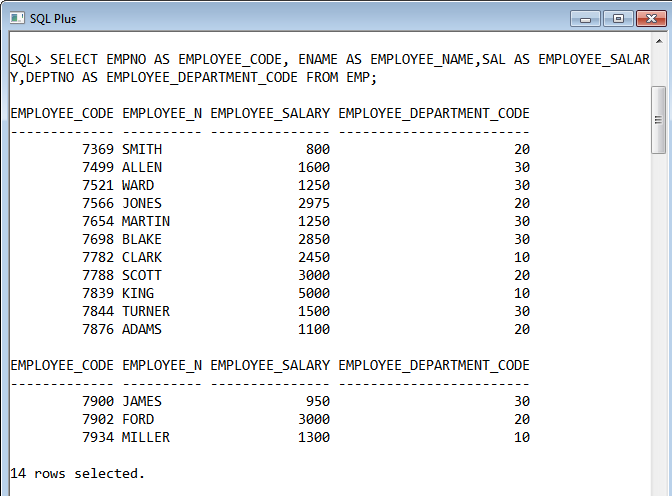
**working in department 20, 30 and 40.**

SELECT ENAME,SAL,DEPTNO FROM EMP WHERE DEPTNO IN (20,30,40);



**Q2. List the details of the employees with user defined Column headers.**

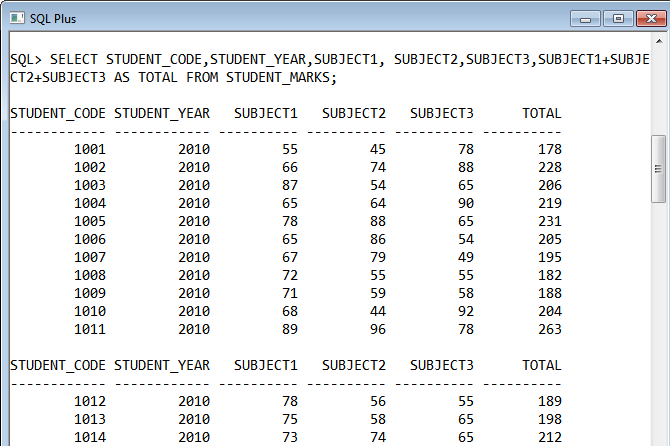
SELECT EMPNO AS EMPLOYEE\_CODE, ENAME AS EMPLOYEE\_NAME,SAL AS EMPLOYEE\_SALARY,DEPTNO AS EMPLOYEE\_DEPARTMENT\_CODE FROM EMP;



**Q3. Display the code, subjects and total marks for every student. Total Marks will be**

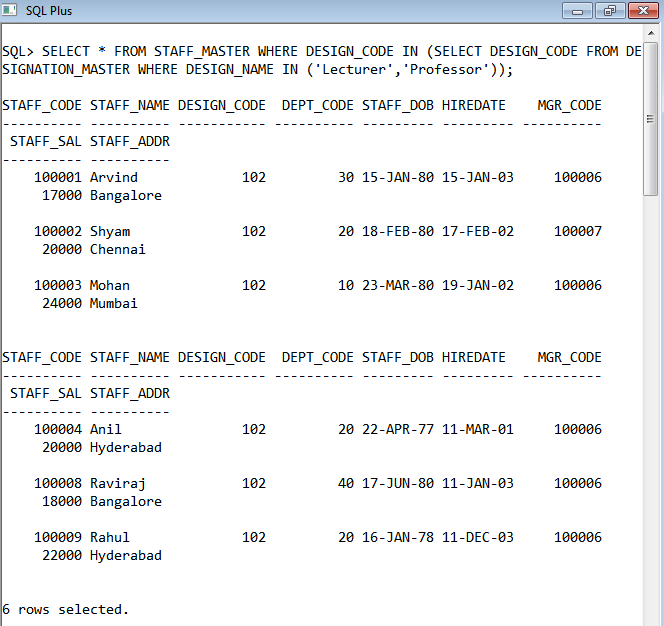
**calculated as Subject1+Subject2+Subject3. (Refer Student\_Marks table)**

SELECT STUDENT\_CODE,STUDENT\_YEAR,SUBJECT1, SUBJECT2,SUBJECT3,SUBJECT1+SUBJECT2+SUBJECT3 AS TOTAL FROM STUDENT\_MARKS;



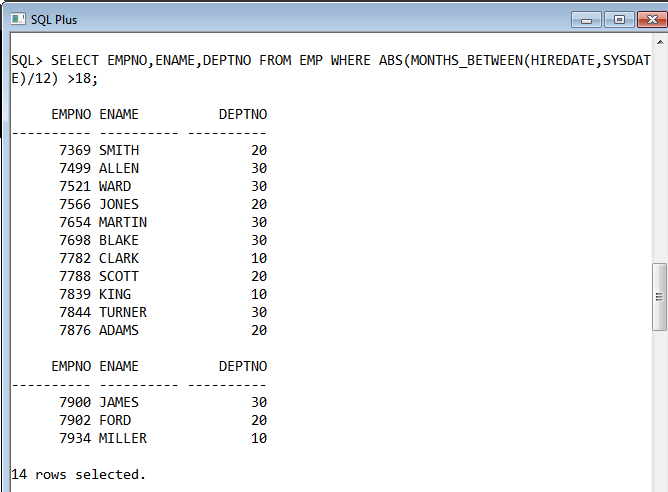
**Q4. List the details of the staff whose designations are either PROFESSOR or** **LECTURER.**

SELECT \* FROM STAFF\_MASTER WHERE DESIGN\_CODE IN (SELECT DESIGN\_CODE FROM DESIGNATION\_MASTER WHERE DESIGN\_NAME IN ('LECTURER','PROFESSOR '));



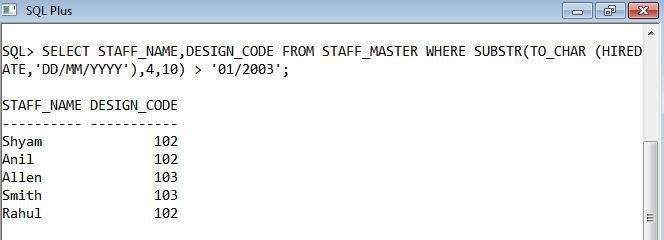
**Q5. List the code, name, and department number of the employees who have experience of more than 18 years.**

SELECT EMPNO,ENAME,DEPTNO FROM EMP WHERE ABS(MONTHS\_BETWEEN(HIREDATE,SYSDATE)/12) >18;



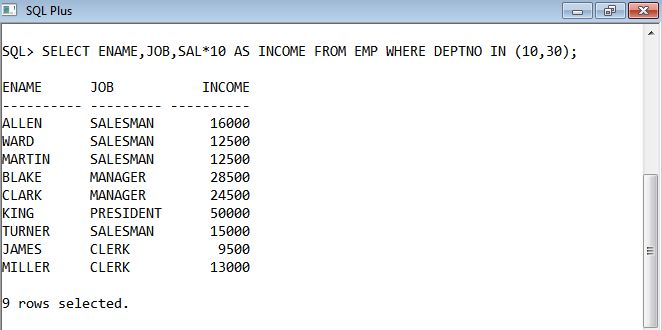
**Q6. List the name and Designations of the staff who have joined before Jan 2003.**

SELECT STAFF\_NAME,DESIGN\_CODE FROM STAFF\_MASTER WHERE SUBSTR(TO\_CHAR (HIREDATE,'DD/MM/YYYY'),4,10) > '01/2003';



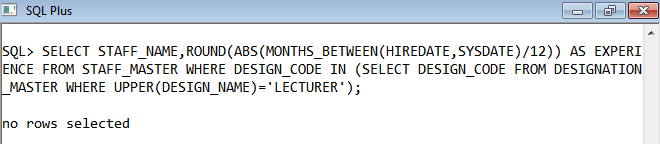
**Q7. List the name, designation, and income for 10 years of the employees who are working in departments 10 and 30.**

SELECT ENAME,JOB,SAL\*10 AS INCOME FROM EMP WHERE DEPTNO IN (10,30);



**Q8. List the name and experience (in years) of employees who are working as LECTURER.**

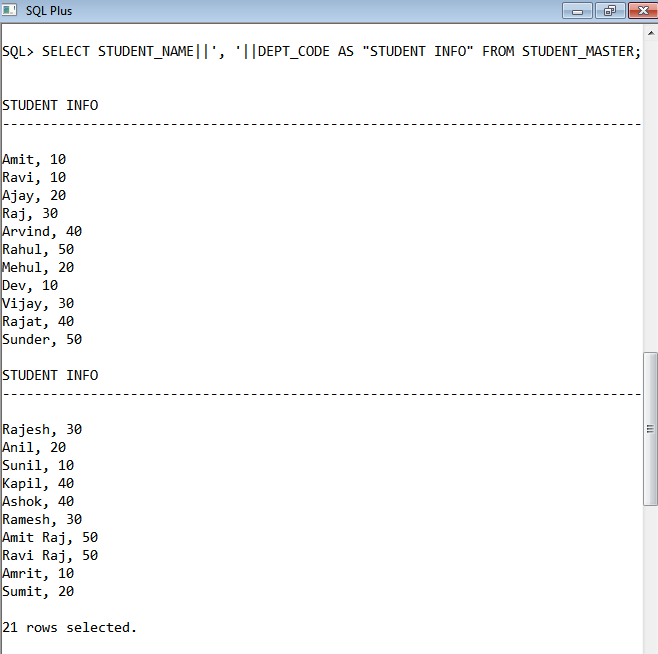
SELECT STAFF\_NAME,ROUND(ABS(MONTHS\_BETWEEN(HIREDATE,SYSDATE)/12)) AS EXPERIENCE FROM STAFF\_MASTER WHERE DESIGN\_CODE IN (SELECT DESIGN\_CODE FROM DESIGNATION\_MASTER WHERE UPPER(DESIGN\_NAME)='LECTURER');



**Q9. Display name concatenated with dept code separated by comma and space. Name**

**the column as ‘Student Info’.**

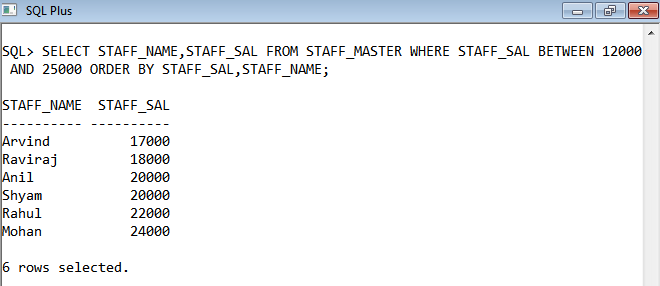
SELECT STUDENT\_NAME||', '||DEPT\_CODE AS "STUDENT INFO" FROM STUDENT\_MASTER;



**Q10. List the Name and Salary of the staff who are earning between 12000 and 25000.**

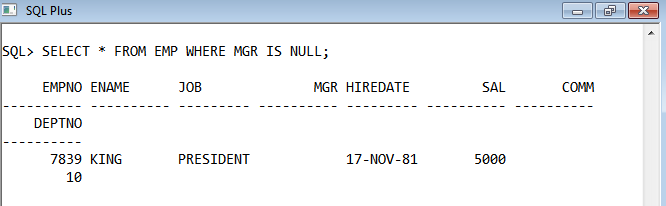
**Sort them based on their salaries and name.**

SELECT STAFF\_NAME,STAFF\_SAL FROM STAFF\_MASTER WHERE STAFF\_SAL BETWEEN 12000 AND 25000 ORDER BY STAFF\_SAL,STAFF\_NAME;



**Q11. Display employees who do not have manager.**

SELECT \* FROM EMP WHERE MGR IS NULL;

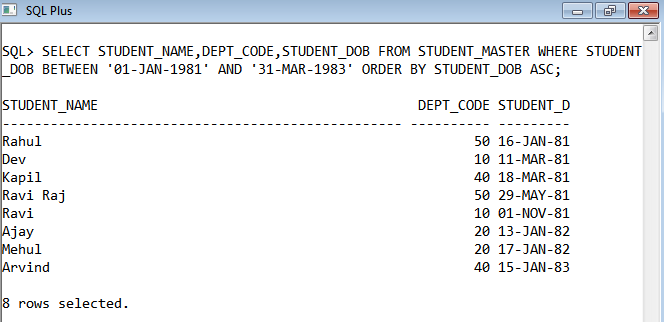


**Q12. Write a query which will display name, department code and date of birth of all**

**students who were born between January 1, 1981 and March 31, 1983. Sort it based**

**on date of birth (ascending).**

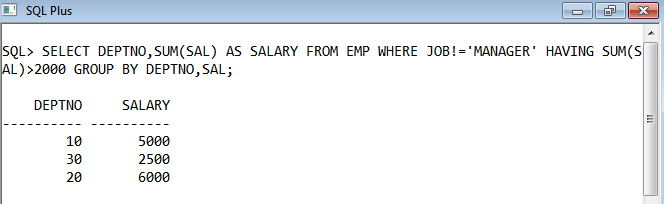
SELECT STUDENT\_NAME,DEPT\_CODE,STUDENT\_DOB FROM STUDENT\_MASTER WHERE STUDENT\_DOB BETWEEN '01-JAN-1981' AND '31-MAR-1983' ORDER BY STUDENT\_DOB ASC;



**Q13. Get the Department number, and sum of Salary of all non managers where the**

**sum is greater than 20000.**

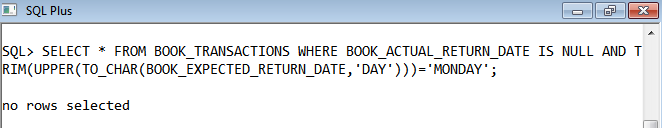
SELECT DEPTNO,SUM(SAL) AS SALARY FROM EMP WHERE JOB!='MANAGER' HAVING SUM(SAL)>2000 GROUP BY DEPTNO,SAL;



**Q14. Display the details of books that have not been returned and expected return date**

**was last Monday.**

SELECT \* FROM BOOK\_TRANSACTIONS WHERE BOOK\_ACTUAL\_RETURN\_DATE IS NULL AND TRIM(UPPER(TO\_CHAR(BOOK\_EXPECTED\_RETURN\_DATE,'DAY')))='MONDAY';

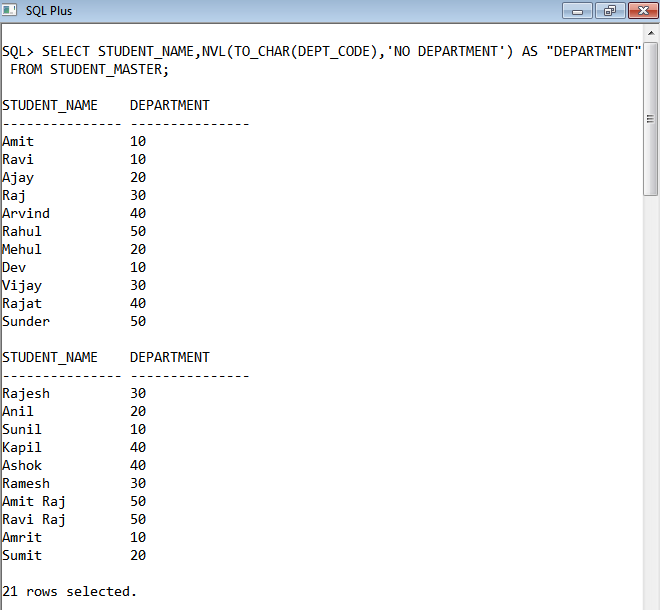


**Q15. Display the name and department code of students. If student does not belong to**

**any department, display “No Department”. Label the column as “Department”. (Hint:**

**Use NVL function)**

SELECT STUDENT\_NAME,NVL(TO\_CHAR(DEPT\_CODE),'NO DEPARTMENT') AS "DEPARTMENT" FROM STUDENT\_MASTER;



**Q16. Display the name and salary of the staff. Salary should be represented as X. Each**

**X represents a 1000 in salary.**

**Sample Output**

**JOHN 10000 XXXXXXXXXX**

**ALLEN 12000 XXXXXXXXXXXX**

SELECT STAFF\_NAME,RPAD('X',STAFF\_SAL/1000,'X') AS SALARY FROM STAFF\_MASTER;

