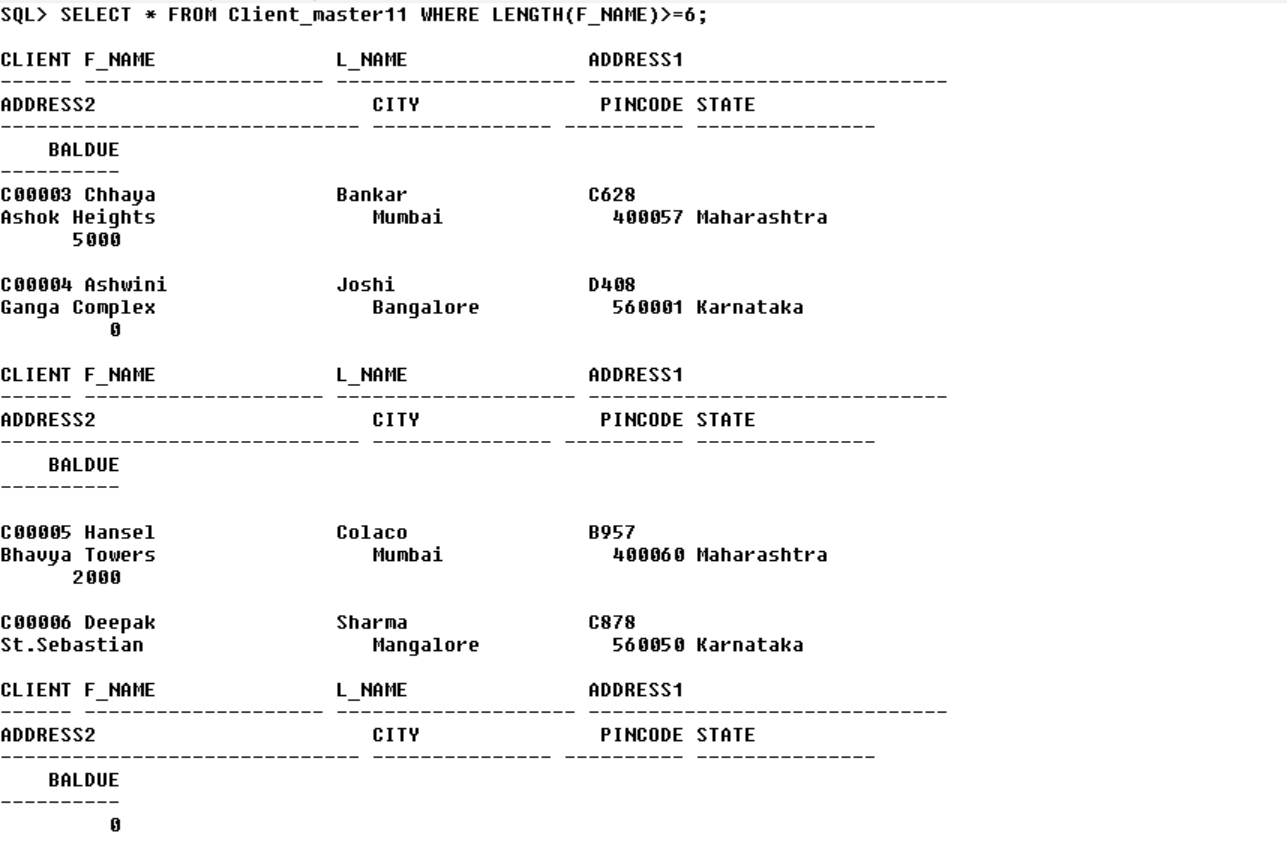
**PRACTICAL 3-FUNCTIONS**

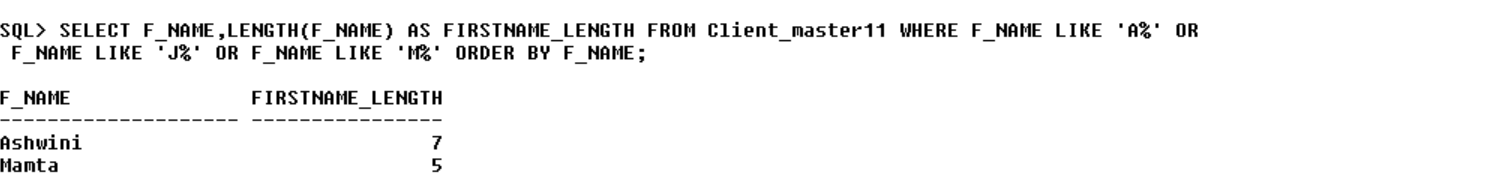
**1)STRING FUNCTIONS**

1. Write a query to get the details of the clients where the length of the first name greater than or equal to 6.  
**INPUT:**  
SELECT \* FROM Client\_master11 WHERE LENGTH(F\_NAME)>=6;  
**OUTPUT:**  


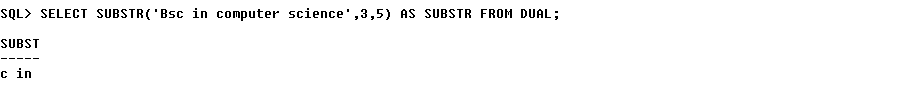
2. Write a query that displays the first name and the length of the first

name for all clients whose name starts with the letters ‘A’, ‘J’ OR ‘M’.

Give each column an appropriate label. Sort the results by the

Client’s first names.  
**INPUT:**  
SELECT F\_NAME,LENGTH(F\_NAME) AS FIRSTNAME\_LENGTH FROM Client\_master11 WHERE F\_NAME LIKE 'A%' OR F\_NAME LIKE 'J%' OR F\_NAME LIKE 'M%' ORDER BY F\_NAME;  
**OUTPUT:**  


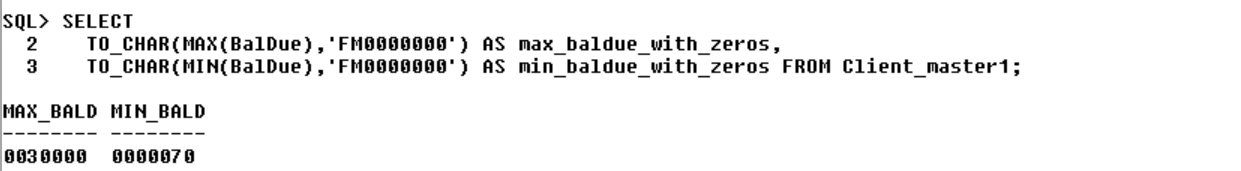
3. Convert Ruia to upper and lower case.  
**INPUT:**  
SELECT UPPER('ruia') AS Uppercase FROM DUAL;

SELECT LOWER('Ruia') AS Lowercase FROM DUAL;  
**OUTPUT:**  
  
  
4. Display substring from “BSc in computer science” starting from 3 to 5.  
**INPUT:**  
SELECT SUBSTR('Bsc in computer science',3,5) AS SUBSTR FROM DUAL;  
**OUTPUT:**  


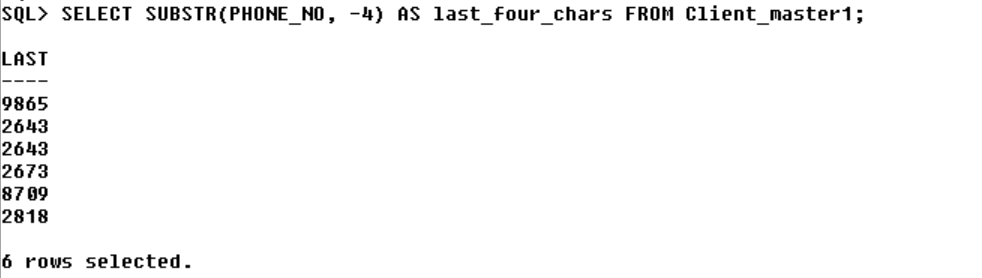
5. Write a query to display leading zeros before maximum and minimum

salary.  
**INPUT:**  
SELECT

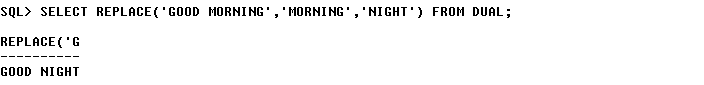
  TO\_CHAR(MAX(BalDue),'FM0000000') AS max\_baldue\_with\_zeros,

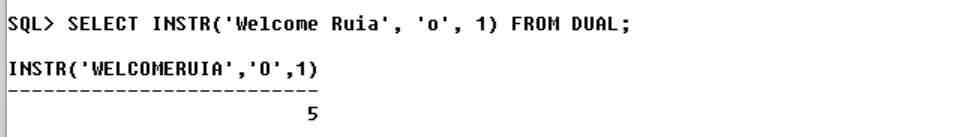
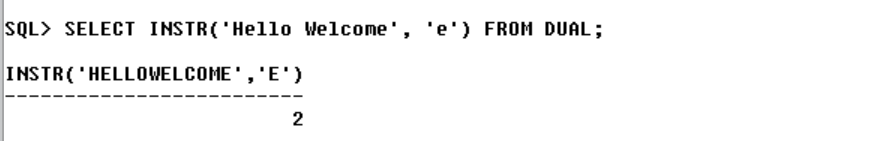
  TO\_CHAR(MIN(BalDue),'FM0000000') AS min\_baldue\_with\_zeros FROM Client\_master1;  
**OUTPUT:**  


6. Write a query to extract the last 4 character of phone numbers.  
**INPUT:**  
SELECT SUBSTR(PHONE\_NO, -4) AS last\_four\_chars FROM Client\_master1;

**OUTPUT:**  


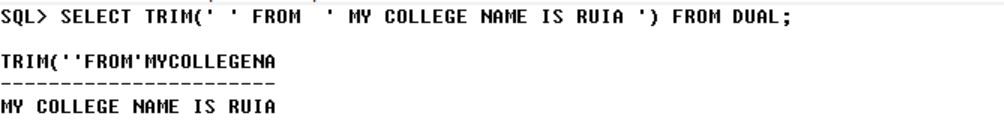
7.Concatenate GOOd and Morning string.  
**INPUT:**  
SELECT CONCAT('GOOD','MORNING') FROM DUAL;  
**OUTPUT:**  
  
  
  
8. Replace “good morning” morning with night’.  
**INPUT:**  
SELECT REPLACE('GOOD MORNING','MORNING','NIGHT') FROM DUAL;

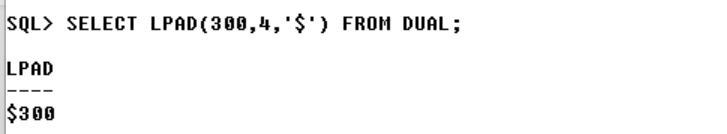
**OUTPUT:**

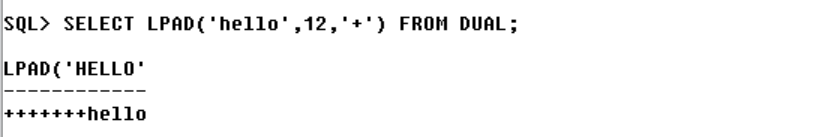
9. Find position of o from “Welcome Ruia”  
**INPUT:**  
SELECT INSTR('Welcome Ruia', 'o', 1) FROM DUAL;  
**OUTPUT:**  
  
  
10. Find second position of E from Hello Welcome.  
**INPUT:**  
SELECT INSTR('Hello Welcome', 'e') FROM DUAL;  
**OUTPUT:**  


11. Remove characters from “\*\*\*Ruia\*\*\*”  
**INPUT:**  
SELECT REPLACE('\*\*\*Ruia\*\*\*','\*\*\*') FROM DUAL;  
**OUTPUT:**  

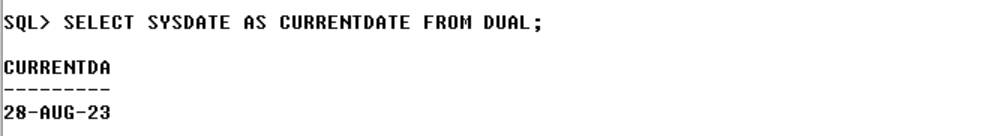

12. Trim out places from  “ my college name is Ruia ”  
**INPUT:**  
SELECT TRIM(' ' FROM  ' MY COLLEGE NAME IS RUIA ') FROM DUAL;

**OUTPUT:**  


13. Add $ before 300  
**INPUT:**  
SELECT LPAD(300,4,'$') FROM DUAL;  
**OUTPUT:**  


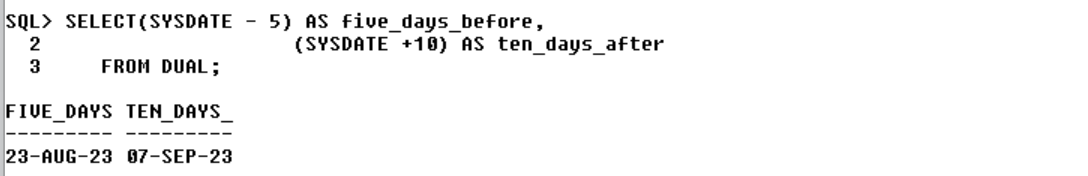
14. Add + before hello to make length 12.  
**INPUT:**  
SELECT LPAD('hello',12,'+') FROM DUAL;  
**OUTPUT:**  


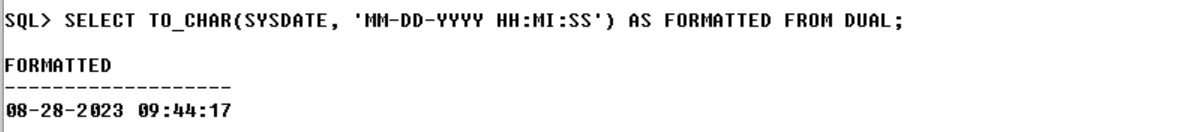
**2)DATE FUNCTIONS**

1.Display today’s date.  
**INPUT:**  
SELECT SYSDATE AS CURRENTDATE FROM DUAL;  
**OUTPUT:**  


2.Display 5 days back and 10 days afterwards date  
**INPUT:**  
SELECT(SYSDATE - 5) AS five\_days\_before,

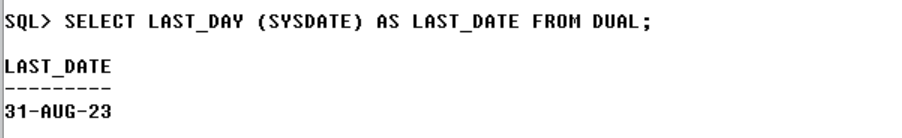
                   (SYSDATE +10) AS ten\_days\_after

   FROM DUAL;  
**OUTPUT:**  


3.Display current date in MM-DD-YYYY HH:MI:SS format.  
**INPUT:**  
SELECT TO\_CHAR(SYSDATE, 'MM-DD-YYYY HH:MI:SS') AS FORMATTED FROM DUAL;  
**OUTPUT:**

4.Display date after 2 month from independence day.  
**INPUT:**  
SELECT ADD\_MONTHS('15-AUG-2023',2) FROM DUAL;

**OUTPUT:**  


5.Display last date of today’s month  
**INPUT:**  
SELECT LAST\_DAY (SYSDATE) AS LAST\_DATE FROM DUAL;  
**OUTPUT:**  


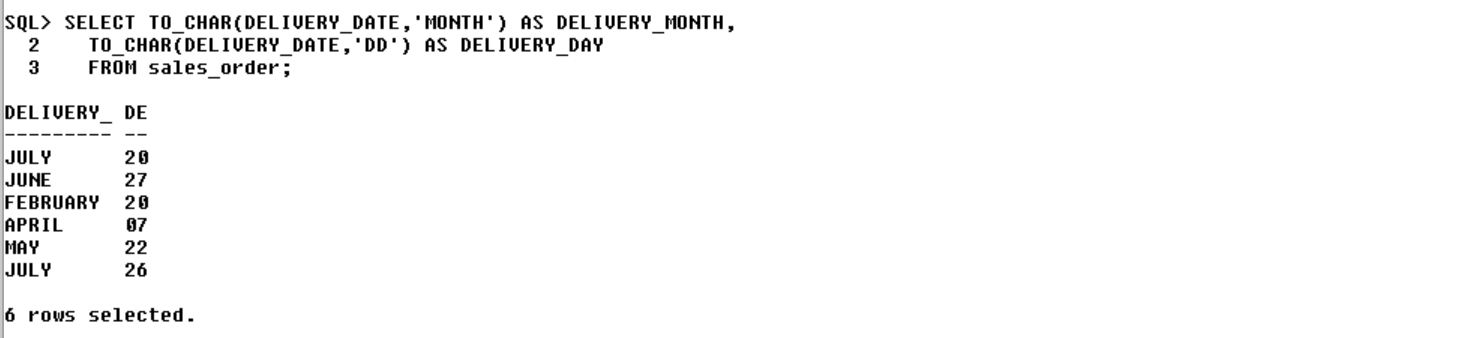
6.List the order number and day on which clients placed their order.  
**INPUT:**SELECT ORDER\_NO,TO\_CHAR(ORDER\_DATE,'DAY') AS DAYS\_OF\_WEEK FROM sales\_order;

**OUTPUT:**

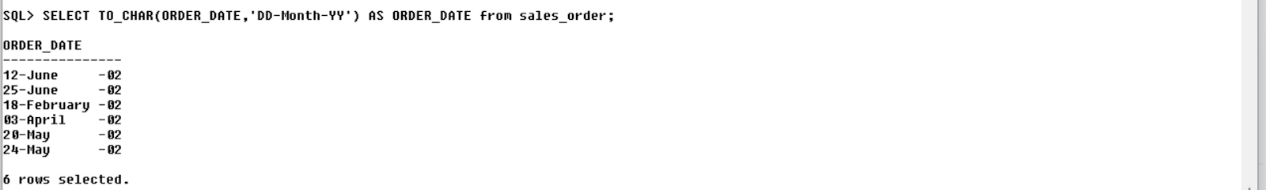
7.List the month (in alphabets) and date when the orders must be   delivered.  
**INPUT:** SELECT TO\_CHAR(DELIVERY\_DATE,'MONTH') AS DELIVERY\_MONTH,

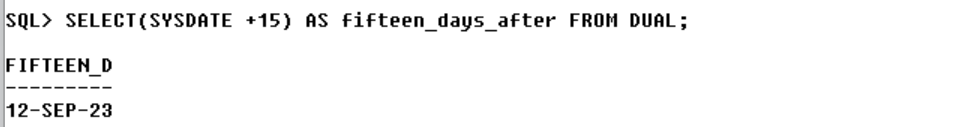
 TO\_CHAR(DELIVERY\_DATE,'DD') AS DELIVERY\_DAY

  FROM sales\_order;

**OUTPUT:**

8.List all OrderDate in the format ‘DD-Month-YY’.e.g. 12-February-02.

**INPUT:**SELECT TO\_CHAR(ORDER\_DATE,'DD-Month-YY') AS ORDER\_DATE from sales\_order; **OUTPUT:**

9.List the date, 15 days after today’s date.  
**INPUT:**  
SELECT(SYSDATE +15) AS fifteen\_days\_after FROM DUAL;  
**OUTPUT:**  


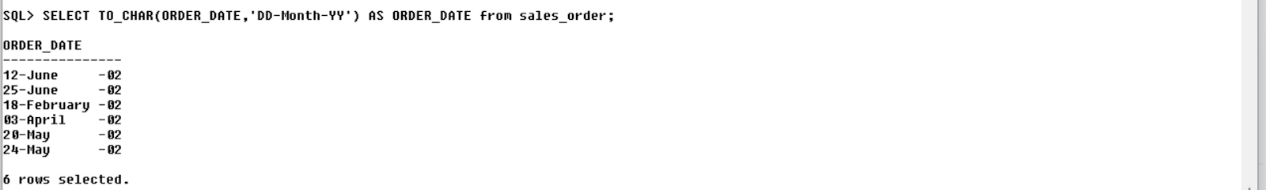
10.List the order number and day on which clients placed their order.  
**INPUT:**SELECT ORDER\_NO,TO\_CHAR(ORDER\_DATE,'DAY') AS DAYS\_OF\_WEEK FROM sales\_order;

**OUTPUT:**

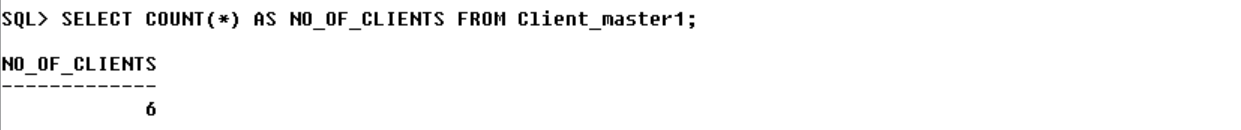
11.List the month (in alphabets) and date when the orders must be

delivered.  
**INPUT:** SELECT TO\_CHAR(DELIVERY\_DATE,'MONTH') AS DELIVERY\_MONTH,  
   TO\_CHAR(DELIVERY\_DATE,'DD') AS DELIVERY\_DAY    
   FROM sales\_order;

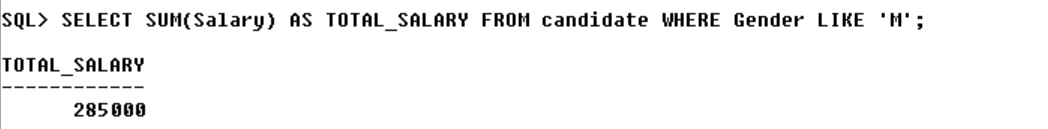
**OUTPUT:**

12.List all OrderDate in the format ‘DD-Month-YY’.e.g. 12-February-02.  
**INPUT:**SELECT TO\_CHAR(ORDER\_DATE,'DD-Month-YY') AS ORDER\_DATE from sales\_order; **OUTPUT:**

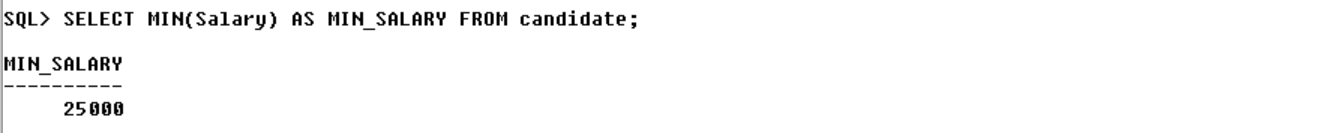
**3)MATH FUNCTIONS**

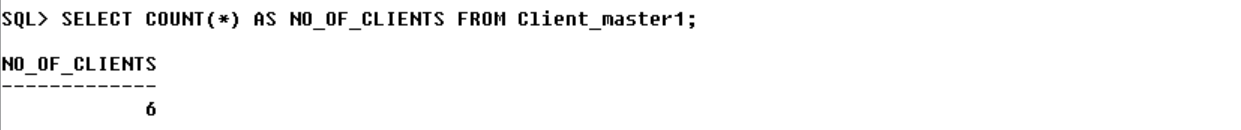
1.Display count of clients available in client master  
**INPUT:**SELECT COUNT(\*) AS NO\_OF\_CLIENTS FROM Client\_master1;  
**OUTPUT:**  


2.Display sum of salary of all male candidate  
**INPUT:**SELECT SUM(Salary) AS TOTAL\_SALARY FROM candidate WHERE Gender LIKE 'M';

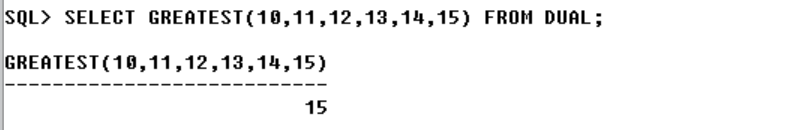
**OUTPUT:**  


3.Find max salary  
**INPUT:**  
SELECT MAX(Salary) AS MAX\_SALARY FROM candidate;  
**OUTPUT:**  


4.Find min salary  
**INPUT:**  
SELECT MIN(Salary) AS MIN\_SALARY FROM candidate;  
**OUTPUT:**  


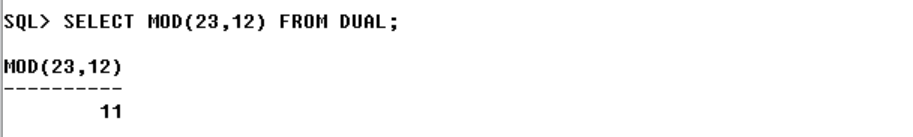
5.Display count of clients available in client master  
**INPUT:**  
SELECT COUNT(\*) AS NO\_OF\_CLIENTS FROM Client\_master1;  
**OUTPUT:**

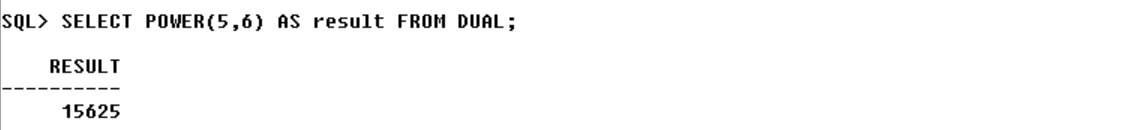
6.Find maximum among 10 to 15  
**INPUT:**SELECT GREATEST(10,11,12,13,14,15) FROM DUAL;

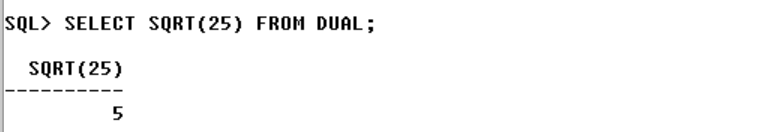
**OUTPUT:**

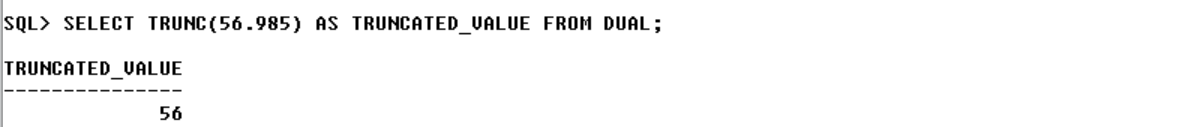
7.Find min among factors of 28  
**INPUT:**  
SELECT LEAST(1,2,4,7,14,28) FROM DUAL;

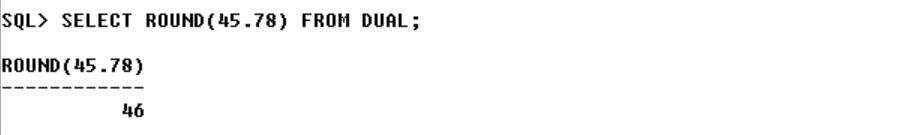
**OUTPUT:**  


8.Find 23%12  
**INPUT:**  
SELECT MOD(23,12) FROM DUAL;  
**OUTPUT:**  


9.Find 5^6  
**INPUT:**  
SELECT POWER(5,6) AS result FROM DUAL;  
**OUTPUT:**  


10.Find square root of 25  
**INPUT:**  
SELECT SQRT(25) FROM DUAL;  
**OUTPUT:**  


11.Find truncated value of 56.985  
**INPUT:**SELECT TRUNC(56.985) AS TRUNCATED\_VALUE FROM DUAL;  
**OUTPUT:**  


12.Find round value of 45.78  
**INPUT:**  
SELECT ROUND(45.78) FROM DUAL;  
**OUTPUT:**  


13.Find sin,cos and tan value of 7  
**INPUT:**  
SELECT

SIN(7) AS sine\_value,

COS(7) AS cosine\_value,

TAN(7) AS tangent\_value

FROM DUAL;  
**OUTPUT:**  
