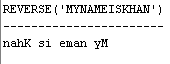
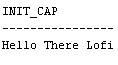
**String functions and pattern matching**

* Length
* Lower
* Upper
* Concate
* Initcap
* reverse
* Substring
* Instring
* Ltrim
* Rtrim
* lpad
* rpad

**A) Use the system table dual for the following questions:**1. Find the reverse of the string: ‘My name is Khan’.  
2. Use ltrim function on ‘123231xyztech’ so as to obtain the o/p ‘tech’.  
3. Use rtrim function on ‘computer ‘ to remove the trailing spaces.  
4. Perform rpad on the string ‘computer’ to obtain the output as ‘computerxxxxx’.  
5. Use instring function to find the first occurrence of ‘e’ in the string ‘welcome to kerala’.  
6. Perform initcap function on a given string ‘HeLlO TheRe LofI’.  
7. Find the length of the string ‘Relational database management systems’.  
8. Concatenate the strings ‘julius’ and ‘ceaser’, also concatenate your first name and last names.  
9. Use substring function to retrieve the substring ‘is’ from the string ‘India is my country’.  
10. Use instring function to find the second occurrence of ‘k’ from the last of the string ‘Making of a king’.

**B) Create a table account details fields (acc\_no, cust\_name, branch\_no, phone\_no) and populate the table with 10 tuples**1.Find the name of all people whose name start with the alphabet ‘d’.  
2. List the names of all branches containing the substring ‘new’. (insert ‘New Jersey’, ‘new Delhi’, ‘New York’ etc.)  
3. List all the names of customers as cust\_name in upper case format.  
4. List the names of the customers where the fourth letter is ‘n’ and the last letter is ‘n’.  
5. List the names starting on ‘d’ third letter is ‘a’, and containing the substring ‘eli’.  
6. List the names, acc\_no of people whose acc\_no ends in numeric ‘6’.  
7. Update and display the table acc\_details so that all cust\_names are in upper case format   
8. List the names of all people ending on the alphabet ‘t’,   
9. List all the names in acc\_details table in reverse.  
10. Display all the phone numbers including the country code +91. (use lpad function)  
11. Display all the acc\_no and account details where the starting alphabet associated with the account number should be removed.  
12. Display the details of all people whose acc\_no starts in ‘4’ and the name contains the substring ‘Williams’.

**Answers:**

1. 1. select reverse('My name is Khan') from dual;  
     
     
   2. select ltrim('123231xyztech','123231xyz') as trim from dual;  
     
     
   3. select rtrim('computer ') as trim from dual;  
     
     
   4. select rpad('computer',13,'x') as padded from dual;  
     
     
   5. select instr('welcome to kerala','e') as loc\_of\_e from dual;  
     
     
   6. select initcap('HeLlO TheRe LofI') as init\_cap from dual;  
     
     
   7. select length('Relational database management systems') as length from dual;  
     
     
   8. select concat('Julius','Ceaser') as concat from dual;  
     
   select concat('Anandu', 'R') as concat from dual;  
     
     
   9. select substr('India is unfortunately my country',7,2) as sub from dual;  
     
     
   10. select instr('Making of a king','k',2,2) as second\_occur from dual;  
   
2. create table acc\_details(acc\_no int,cust\_name varchar2(25),branch varchar2(25), pho\_no int);  
   insert into acc\_details values(123456,'Anandu','New Delhi',1234567890);

insert into acc\_details values(143457,'Dani','New Jersey',123452310);

insert into acc\_details values(143358,'Clara','New York',122452310);

insert into acc\_details values(243358,'Nikhit','Amristar',122453310);

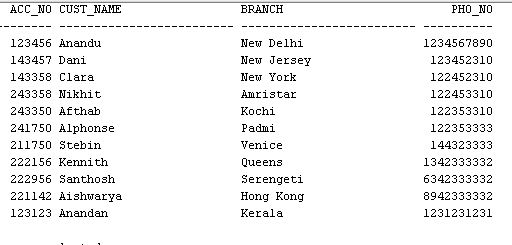
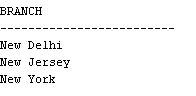
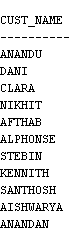
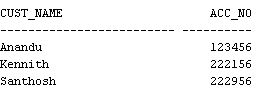
insert into acc\_details values(243350,'Afthab','Kochi',122353310);

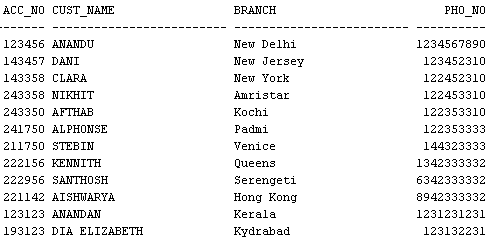
insert into acc\_details values(241750,'Alphonse','Padmi',122353333);

insert into acc\_details values(211750,'Stebin','Venice',144323333);

insert into acc\_details values(222156,'Kennith','Queens',1342333332);

insert into acc\_details values(222956,'Santhosh','Serengeti',6342333332);

insert into acc\_details values(221142,'Aishwarya','Hong Kong',8942333332);  
insert into acc\_details values(123123,'Anandan','Kerala',1231231231);  
  
1. select cust\_name from acc\_details where cust\_name like 'D%';  
  
  
2. select branch from acc\_details where branch like '%New  
  
3. select upper(cust\_name) as cust\_name from acc\_details;  
  
  
4. select cust\_name from acc\_details where cust\_name like '\_n%n';  
  
  
5. insert into acc\_details values(193123,'Dia Elizabeth','Kydrabad',123132231);  
select cust\_name from acc\_details where cust\_name like 'D\_a%Eli%';  
  
  
6. select cust\_name,acc\_no from acc\_details where acc\_no like '%6';  


7. update acc\_details set cust\_name = upper(cust\_name);  
  
  
8.