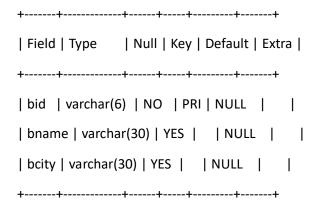
# -||ANUDIP LAB WORK||-

### **Create Customer Table:-**

```
+----+
| Field
     | Type
             | Null | Key | Default | Extra |
+----+
| custid | varchar(6) | NO | PRI | NULL |
| fname | varchar(30) | YES | NULL |
| mname | varchar(30) | YES | NULL |
| Itname | varchar(30) | YES | NULL |
city
     | varchar(15) | YES | | NULL | |
| mobileno | varchar(10) | YES | NULL |
occupation | varchar(10) | YES | NULL |
| dob
      date
             | YES | | NULL | |
+----+
```

### **Insert Values in Customer Table:-**

### **Create Branch Table:-**



## **Insert Values in Branch Table:-**

```
+-----+
| bid | bname | bcity |
|-----+
| B00001 | Asaf ali road | Delhi |
| B00002 | New delhi main branch | Delhi |
| B00003 | Delhi cantt | Delhi |
| B00004 | Jasola | Delhi |
| B00005 | Mahim | Mumbai |
| B00006 | Vile parle | Mumbai |
| B00007 | Mandvi | Mumbai |
| B00008 | Jadavpur | Kolkata |
| B00009 | Kodambakkam | Chennai |
| +------+
```

### **Create Account Table:-**

```
+-----+
| Field | Type | Null | Key | Default | Extra |
| +-----+
| acnumber | varchar(6) | NO | PRI | NULL | |
| custid | varchar(6) | YES | MUL | NULL | |
| bid | varchar(6) | YES | MUL | NULL | |
| opening_balance | int | YES | NULL | |
| aod | date | YES | NULL | |
| atype | varchar(10) | YES | NULL | |
| astatus | varchar(10) | YES | NULL | |
```

## **Insert Values in Account Table:-**

```
+----+
| acnumber | custid | bid | opening_balance | aod | atype | astatus |
+-----+
| A00001 | C00001 | B00001 |
                              1000 | 2012-12-15 | Saving | Active
| A00002 | C00002 | B00001 |
                              1000 | 2012-06-12 | Saving | Active
| A00003 | C00003 | B00002 |
                              1000 | 2012-05-17 | Saving | Active
| A00004 | C00002 | B00005 |
                               1000 | 2013-01-27 | Saving | Active
| A00005 | C00006 | B00006 |
                               1000 | 2012-12-17 | Saving | Active
| A00006 | C00007 | B00007 |
                               1000 | 2010-08-12 | Saving | Suspended |
| A00007 | C00007 | B00001 |
                               1000 | 2012-10-02 | Saving | Active |
| A00008 | C00001 | B00003 |
                               1000 | 2009-11-09 | Saving | Terminated |
| A00009 | C00003 | B00007 |
                               1000 | 2008-11-30 | Saving | Terminated |
| A00010 | C00004 | B00002 |
                               1000 | 2013-03-01 | Saving | Active |
```

# **Create Trandetails Tabe:-**

++				
Field   Type   Null   Key   Default   Extra				
++				
tnumber   varchar(6)   NO   PRI   NULL				
acnumber   varchar(6)   YES   MUL   NULL				
dot				
medium_of_transaction   varchar(20)   YES     NULL				
transaction_type   varchar(20)   YES     NULL				
transaction_amount   int   YES     NULL				
++				

# **Insert Values in Trandetails Table:-**

++		+			
tnumber   acnumber   dot					
++	+	+			
T00001   A00001   2013-01-01   Cheque	Deposit	2000			
T00002   A00001   2013-02-01   Cash	Withdrawal	1000			
T00003   A00002   2013-01-01   Cash	Deposit	2000			
T00004   A00002   2013-02-01   Cash	Deposit	3000			
T00005   A00007   2013-01-11   Cash	Deposit	7000			
T00006   A00007   2013-01-13   Cash	Deposit	9000			
T00007   A00001   2013-03-13   Cash	Deposit	4000			
T00008   A00001   2013-03-14   Cheque	Deposit	3000			
T00009   A00001   2013-03-21   Cash	Withdrawal	9000			
T00010   A00001   2013-03-22   Cash	Withdrawal	2000			
T00011   A00002   2013-03-25   Cash	Withdrawal	7000			
T00012   A00007   2013-03-26   Cash	Withdrawal	2000			

## **Create Loan Table:-**

+	+	++
Field	Type	Null   Key   Default   Extra
+	+	++
custid	varcha	ar(6)   NO   PRI   NULL
bid	varchar	(6)   NO   PRI   NULL
loan_aı	mount   in	nt   YES     NULL
+	+	++

## **Insert Values in Loan Table:-**

```
+-----+
| custid | bid | loan_amount |
+-----+
| C00001 | B00001 | 100000 |
| C00001 | B00003 | 600000 |
| C00002 | B00001 | 600000 |
| C00002 | B00002 | 200000 |
| C00009 | B00008 | 400000 |
| C00010 | B00009 | 500000 |
```

+----+

#### Problem #1:

Write a query to display the customer number, firstname, customer's date of birth. Display in a sorted order of date of birth year and within that sort by firstname.

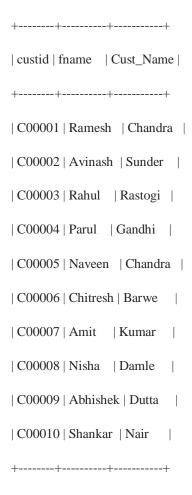
Query: SELECT custid, fname, dob FROM customer ORDER BY YEAR(dob), fname;

```
+-----+
| custid | fname | dob |
| custid | fname | dob |
| custid | fname | dob |
| cooooo | Abhishek | 1973-05-22 |
| cooooo | Avinash | 1974-10-16 |
| cooooo | Nisha | 1975-12-03 |
| cooooo | Naveen | 1976-09-19 |
| cooooo | Naveen | 1976-11-03 |
| cooooo | Ramesh | 1976-12-06 |
| cooooo | Shankar | 1976-07-12 |
| cooooo | Amit | 1981-09-06 |
| cooooo | Chitresh | 1992-11-06 |
| cooooo | Chitresh | 1992-11-06 |
```

#### Problem #2:

Write a query to display customer's number, first name and middle name. The customer's who don't have middle name, for them display the last name. Give the alias name as Cust\_Name.

Query: - SELECT custid, fname, COALESCE(mname, ltname) AS Cust\_Name FROM customer;



#### Problem#3:

Write a query to display account number, customer's number, customer's firstname,lastname,account opening date.

*Query*:- SELECT a.acnumber, a.custid, c.fname AS customer\_firstname, c.ltname AS customer\_lastname, a.aod AS account\_opening\_date FROM account a JOIN customer c ON a.custid = c.custid;

+-----+

acnumber   custid   customer_	firstname   custome	er_lastname   accour	nt_opening_date
+	+	+	+
A00001   C00001   Ramesh	Sharma	2012-12-15	1
A00002   C00002   Avinash	Minha	2012-06-12	1
A00003   C00003   Rahul	Rastogi	2012-05-17	
A00004   C00002   Avinash	Minha	2013-01-27	1
A00005   C00006   Chitresh	Barwe	2012-12-17	
A00006   C00007   Amit	Borkar	2010-08-12	
A00007   C00007   Amit	Borkar	2012-10-02	
A00008   C00001   Ramesh	Sharma	2009-11-09	1
A00009   C00003   Rahul	Rastogi	2008-11-30	
A00010   C00004   Parul	Gandhi	2013-03-01	
+			+

### **Problem # 4:**

Write a query to display the number of customer's from Delhi. Give the count an alias name of Cust\_Count.

Query:- SELECT COUNT(\*) AS Cust\_Count FROM customer WHERE city = 'Delhi';
+-----+
| Cust\_Count |
+-----+
| 4 |

### **Problem # 5:**

Write a query to display the customer number, customer firstname, account number for the customer's whose accounts were created after 15th of any month.

Query:- select a.custid,c.fname,a.acnumber from account a,customer c where a.custid=c.custid and

day(aod)>15;
+-----+
| custid | fname | acnumber |
+-----+
C00003	Rahul	A00003
C00002	Avinash	A00004
C00006	Chitresh	A00005
C00003	Rahul	A00009
+-----+

#### Problem # 6:

Write a query to display the female customers firstname, city and account number who are not into business, service or studies.

*Query:*- SELECT c.custid, c.fname, c.city, a.acnumber FROM customer c LEFT JOIN account a ON c.custid = a.custid WHERE c.occupation NOT IN ('Business', 'Service', 'Student') OR c.occupation IS NULL;

+-----+
| custid | fname | city | acnumber |
+-----+
| C00004 | Parul | Delhi | A00010 |
+-----+

#### **Problem #7:**

Write a query to display city name and count of branches in that city. Give the count of branches an alias name of Count\_Branch.

Query:- select bcity,count(\*) as Count\_Branch from branch group by bcity;

bcity   Coun	t_Branch
+	+
Delhi	4
Mumbai	3
Kolkata	1
Chennai	1
+	+

#### Problem #8:

Write a query to display account id, customer's firstname, customer's lastname for the customer's whose account is Active.

**Query:-** select a.acnumber,c.custid,c.fname,c.ltname from account a,customer c where a.custid=c.custid and astatus="active";

#### Problem #9:

Write a query to display the customer's number, customer's firstname, branch id and loan amount for people who have taken loans.

Query:- select l.custid,l.bid,l.loan\_amount,c.fname from loan l,customer c where c.custid=l.custid;

```
+----+
| custid | bid | loan_amount | fname |
+-----+
| C00001 | B00001 | 100000 | Ramesh |
| C00001 | B00003 | 600000 | Ramesh |
| C00002 | B00001 | 600000 | Avinash |
| C00002 | B00002 | 200000 | Avinash |
| C00009 | B00008 | 400000 | Abhishek |
| C00010 | B00009 | 500000 | Shankar |
```

#### **Problem # 10:**

Write a query to display customer number, customer name, account number where the account status is terminated.

*Query:*- select a.custid,a.acnumber,c.fname from account a,customer c where a.custid=c.custid and astatus="terminated";

```
+-----+
| custid | acnumber | fname |
```

```
+----+
| C00001 | A00008 | Ramesh |
| C00003 | A00009 | Rahul |
+-----+
```

# **ER Diagram:-**

