**Bank Case Study.**

1. **Display customer id, first name, initials and last name of female customers who have some initials.**

select cust\_id, cust\_fname, initials, cust\_lname

from bank\_customer

where cust\_sex='F'

and initials is not null;

1. **Write a query to show customer id, phone no., and full address of customers who live either in 'Karnataka' or 'Tamilnadu'.**

select cust\_id, cust\_phone, cust\_addr\_line1||' '||cust\_addr\_line2||' '||cust\_city||' '||cust\_state||' '||cust\_pin as "Full\_Address"

from bank\_cust\_contact

where cust\_state in ('Karnataka', 'Tamilnadu');

1. **Display details (account no, primary customer id, current balance and a/c start date) of active SB accounts in the order of latest start date (first) to earliest start date (last).**

select account\_no, primary\_cust\_id, curr\_bal\_amt, start\_date

from bank\_sb\_account

where acc\_status = 'Active'

order by start\_date desc;

1. **Display bank employee designation, id, name and gender of those employees who have a manager, sorted in descending order of designation and ascending order of employee name.**

select designation, bank\_emp\_id, emp\_name, emp\_sex

from bank\_employee

where manager\_id is not null

order by designation desc, emp\_name asc;

1. **What are the minimum and maximum installment amounts of RD accounts which were started during year 2008?**

select min(installment\_amt) as "Minimum", max(installment\_amt) as "Maximum"

from bank\_rd\_account

where to\_char(rd\_start\_dt, 'yyyy') = 2008;

1. **Write a query to show designation and the no. of employees under each designation except 'attender'. Arrange the output by no. of employees and then by designation.**

select designation, count(bank\_emp\_id) as "No\_of\_employees"

from bank\_employee

group by designation

having designation <> 'ATTENDER'

order by "No\_of\_employees", designation;

1. **Write a query to show customer id and the no. of office phones they have of those customers who have more than one office phone.**

select cust\_id, count(cust\_phone) as "No\_of\_office\_phones"

from bank\_cust\_contact

where contact\_type = 'OFFICE'

group by cust\_id

having count(cust\_phone) > 1;

1. **Display customer id, first & last names, home phone no. and city of those customers who live outside Karnataka.**

select bc.cust\_id, bc.cust\_fname, bc.cust\_lname, bcc.cust\_phone, bcc.cust\_city

from bank\_customer bc join bank\_cust\_contact bcc

on bc.cust\_id = bcc.cust\_id

where bcc.contact\_type = 'HOME'

and bcc.cust\_state != 'Karnataka';

1. **Show transaction details – SB a/c no., transaction type, date, description and amount, for transaction amounts > 1000. Sort the output based on a/c no, transaction type and date.**

select sb.account\_no, bt.trans\_type, bt.trans\_dt, bt.trans\_desc, bt.trans\_amt

from bank\_sb\_account sb join bank\_transaction bt

on sb.account\_no = bt.trans\_acc\_no

where bt.trans\_amt > 1000

order by bt.trans\_acc\_no, bt.trans\_type, bt.trans\_dt;

1. **Show customer id, his/her phone no.(s), SB account no., transaction date and amount of the customer(s) who have done ATM withdrawal transaction.**

select bcc.cust\_id, bcc.cust\_phone, sb.account\_no, bt.trans\_dt, bt.trans\_amt

from bank\_cust\_contact bcc join bank\_sb\_account sb

on bcc.cust\_id = sb.primary\_cust\_id

join bank\_transaction bt

on sb.account\_no = bt.trans\_acc\_no

where bt.trans\_desc = '%ATM%';

1. **For every state and for every city find the total transactions performed by every customer. Get the data for every combination of the dimension.**

select bcc.cust\_id, bcc.cust\_state, bcc.cust\_city, count(bt.trans\_no)

from bank\_cust\_contact bcc join bank\_sb\_account sb

on bcc.cust\_id = sb.primary\_cust\_id

join bank\_transaction bt

on sb.account\_no = bt.trans\_acc\_no

group by cube(bcc.cust\_id, bcc.cust\_state, bcc.cust\_city);

1. **For every state find the total number of credit transactions performed by every customer which exceeds 10k.**

select bcc.cust\_id, bcc.cust\_state, count(bt.trans\_type)

from bank\_cust\_contact bcc join bank\_sb\_account sb

on bcc.cust\_id = sb.primary\_cust\_id

join bank\_transaction bt

on sb.account\_no = bt.trans\_acc\_no

where bt.trans\_type = 'CR'

and bt.trans\_amt > 10000

group by (bcc.cust\_id, bcc.cust\_state);