DBT Problem Solving - Set - 009

Feb19/ DBT-PS/ 009

Database Technologies

Diploma in Advance Computing

February 2019

**Branch Table:**

|  |  |  |
| --- | --- | --- |
| **branchID** | **branchName** | **city** |
| 1 | Paud Road | pune |
| 2 | MG Road | Mumbai |
| 3 | Kothrud | Pune |
| 4 | Camp | Pune |
| 5 | Deccan | Pune |
| 6 | Dadar | Mumbai |
| 7 | Link Road | Mumbai |

**Bank\_Employee Table:**

|  |  |  |  |
| --- | --- | --- | --- |
| **employeeID** | **EmployeeName** | **branchID** | **Salary** |
| 1 | Saleel | 1 | 4500 |
| 2 | Sharmin | 3 | 6000 |
| 3 | Vrushali | 1 | 2500 |
| 4 | Bandish | 2 | 2000 |
| 5 | Nitish | 5 | 1000 |
| 6 | Neel | 6 | 3200 |
| 7 | Deep | 3 | 3400 |
| 8 | Gau | 2 | 5600 |
| 9 | Supriya | 4 | 3700 |
| 10 | Sangita | 5 | 2800 |
| 11 | Monika | 4 | 1800 |
| 12 | Kaushal | 3 | 800 |
| 13 | Ruhan | 5 | 5000 |
| 14 | Mai | 5 | 3400 |
| 15 | Bipin | 3 | 950 |
| 16 | Didi | 3 | 1200 |
| 17 | Sumeet | 3 | 1100 |
| 18 | Raja | 1 | 3200 |
| 19 | Nrupali | 4 | 2300 |
| 20 | Rahul | 2 | 1300 |

**Bank\_Customer Table:**

|  |  |  |  |
| --- | --- | --- | --- |
| **customerID** | **customerName** | **gender** | **city** |
| 1 | Amit | M | pune |
| 2 | Rahul | M | Mumbai |
| 3 | Sanjay | M | Pune |
| 4 | Pinky | F | Pune |
| 5 | Smita | F | Pune |
| 6 | Janhavi | F | Mumbai |
| 7 | Omkar | M | Mumbai |
| 8 | Ninad | M | pune |
| 9 | Sanjay | M | Mumbai |
| 10 | Bob | M | Pune |
| 11 | Rajesh | M | Pune |
| 12 | Amol | M | Pune |
| 13 | Arvind | M | Pune |
| 14 | Pankaj | M | Baroda |
| 15 | Bhavin | M | Baroda |
| 16 | Boy | M | Baroda |
| 17 | Sangita | F | Baroda |

**Account Table:**

|  |  |  |  |
| --- | --- | --- | --- |
| **accountNo** | **customerID** | **branchID** | **balance** |
| 2011 | 4 | 6 | 31608 |
| 2214 | 10 | 5 | 113190 |
| 2594 | 5 | 2 | 114167 |
| 2743 | 10 | 6 | 94827 |
| 2120 | 5 | 2 | 92503 |
| 2080 | 6 | 2 | 40258 |
| 1675 | 1 | 5 | 124408 |
| 1694 | 6 | 5 | 92102 |
| 2175 | 10 | 5 | 34478 |
| 1607 | 4 | 7 | 144502 |
| 2365 | 12 | 4 | 52160 |
| 2222 | 12 | 4 | 92940 |
| 1590 | 11 | 7 | 128992 |
| 2041 | 2 | 6 | 140878 |
| 2722 | 11 | 3 | 97540 |
| 2532 | 9 | 4 | 93655 |
| 2236 | 10 | 4 | 58354 |
| 2277 | 7 | 2 | 56088 |
| 1254 | 10 | 7 | 147988 |
| 2781 | 5 | 4 | 34521 |
| 1811 | 7 | 5 | 105396 |
| 2985 | 2 | 3 | 134739 |
| 2392 | 2 | 3 | 83100 |
| 2006 | 3 | 2 | 45905 |
| 2738 | 7 | 5 | 57958 |
| 1634 | 1 | 5 | 111726 |
| 2196 | 5 | 6 | 143319 |
| 2635 | 4 | 6 | 70094 |
| 2754 | 12 | 1 | 143892 |
| 1322 | 12 | 3 | 122719 |
| 1821 | 1 | 2 | 75434 |
| 2807 | 8 | 5 | 87713 |
| 1696 | 4 | 5 | 96282 |
| 1683 | 10 | 1 | 135911 |
| 2168 | 7 | 1 | 142343 |
| 1541 | 4 | 6 | 92875 |
| 2980 | 8 | 5 | 68209 |
| 2906 | 9 | 4 | 57334 |
| 2696 | 1 | 6 | 123148 |
| 1738 | 8 | 1 | 94580 |
| 1115 | 9 | 2 | 34083 |
| 2231 | 3 | 3 | 79575 |
| 1114 | 3 | 6 | 148874 |
| 2357 | 2 | 1 | 43202 |
| 1006 | 10 | 6 | 142806 |
| 1336 | 10 | 1 | 68072 |
| 1316 | 2 | 7 | 73540 |
| 2935 | 11 | 7 | 93922 |
| 1112 | 9 | 5 | 143191 |
| 2667 | 9 | 3 | 102538 |

**Depositor Table:**

|  |  |  |  |
| --- | --- | --- | --- |
| **id** | **accountNo** | **date** | **amount** |
| 1 | 2011 | 2019-01-08 | 18478 |
| 2 | 2214 | 2019-01-18 | 9260 |
| 3 | 2594 | 2019-01-24 | 4364 |
| 4 | 2743 | 2019-02-02 | 5633 |
| 5 | 2120 | 2019-02-09 | 5435 |
| 6 | 2080 | 2019-02-11 | 16280 |
| 7 | 1675 | 2019-03-28 | 17382 |
| 8 | 1694 | 2019-04-13 | 7111 |
| 9 | 2175 | 2019-04-24 | 14256 |
| 10 | 1607 | 2019-06-10 | 9090 |
| 11 | 2365 | 2019-06-22 | 6126 |
| 12 | 2222 | 2019-07-08 | 13072 |
| 13 | 1590 | 2019-07-13 | 17010 |
| 14 | 2041 | 2019-07-17 | 3867 |
| 15 | 2722 | 2019-08-10 | 18316 |
| 16 | 2532 | 2019-08-12 | 1775 |
| 17 | 2236 | 2019-08-19 | 9523 |
| 18 | 2277 | 2019-08-21 | 18195 |
| 19 | 1254 | 2019-09-21 | 9580 |
| 20 | 2781 | 2019-09-24 | 19191 |
| 21 | 1811 | 2019-11-01 | 5311 |
| 22 | 2985 | 2019-11-21 | 8815 |
| 23 | 2392 | 2019-11-23 | 16756 |
| 24 | 2006 | 2019-11-30 | 19488 |
| 25 | 2738 | 2019-12-02 | 15807 |
| 26 | 1634 | 2019-01-11 | 6600 |
| 27 | 2196 | 2019-02-05 | 14609 |
| 28 | 2635 | 2019-02-12 | 10939 |
| 29 | 2754 | 2019-03-06 | 5450 |
| 30 | 1322 | 2019-03-14 | 18184 |
| 31 | 1821 | 2019-03-18 | 4074 |
| 32 | 2807 | 2019-03-20 | 4599 |
| 33 | 1696 | 2019-03-27 | 16670 |
| 34 | 1683 | 2019-04-13 | 19228 |
| 35 | 2168 | 2019-04-30 | 12475 |
| 36 | 1541 | 2019-05-06 | 19689 |
| 37 | 2980 | 2019-05-08 | 10803 |
| 38 | 2906 | 2019-06-04 | 14468 |
| 39 | 2696 | 2019-07-27 | 2186 |
| 40 | 1738 | 2019-08-16 | 12348 |
| 41 | 1115 | 2019-08-20 | 10837 |
| 42 | 2231 | 2019-08-31 | 10182 |
| 43 | 1114 | 2019-09-05 | 14926 |
| 44 | 2357 | 2019-09-17 | 14558 |
| 45 | 1006 | 2019-09-30 | 10466 |
| 46 | 1336 | 2019-11-04 | 11236 |
| 47 | 1316 | 2019-11-06 | 3184 |
| 48 | 2935 | 2019-11-13 | 5985 |
| 49 | 1112 | 2019-11-16 | 18247 |
| 50 | 2667 | 2019-12-17 | 16246 |

**Withdraw Table:**

|  |  |  |  |
| --- | --- | --- | --- |
| id | accountNo | date | amount |
| 1 | 2011 | 2019-01-11 | 1092 |
| 2 | 2214 | 2019-01-21 | 1137 |
| 3 | 2594 | 2019-01-27 | 1001 |
| 4 | 2743 | 2019-02-05 | 524 |
| 5 | 2120 | 2019-02-12 | 1068 |
| 6 | 2080 | 2019-02-14 | 749 |
| 7 | 1675 | 2019-03-31 | 892 |
| 8 | 1694 | 2019-04-16 | 781 |
| 9 | 2175 | 2019-04-27 | 1008 |
| 10 | 1607 | 2019-06-13 | 794 |
| 11 | 2365 | 2019-06-25 | 554 |
| 12 | 2222 | 2019-07-11 | 787 |
| 13 | 1590 | 2019-07-16 | 840 |
| 14 | 2041 | 2019-07-20 | 543 |
| 15 | 2722 | 2019-08-13 | 883 |
| 16 | 2532 | 2019-08-15 | 735 |
| 17 | 2236 | 2019-08-22 | 835 |
| 18 | 2277 | 2019-08-24 | 567 |
| 19 | 1254 | 2019-09-24 | 701 |
| 20 | 2781 | 2019-09-27 | 924 |
| 21 | 1811 | 2019-11-04 | 1112 |
| 22 | 2985 | 2019-11-24 | 762 |
| 23 | 2392 | 2019-11-26 | 749 |
| 24 | 2006 | 2019-12-03 | 828 |
| 25 | 2738 | 2019-12-05 | 522 |
| 26 | 1634 | 2019-01-14 | 815 |
| 27 | 2196 | 2019-02-08 | 676 |
| 28 | 2635 | 2019-02-15 | 538 |
| 29 | 2754 | 2019-03-09 | 944 |
| 30 | 1322 | 2019-03-17 | 1044 |
| 31 | 1821 | 2019-03-21 | 934 |
| 32 | 2807 | 2019-03-23 | 773 |
| 33 | 1696 | 2019-03-30 | 1018 |
| 34 | 1683 | 2019-04-16 | 1022 |
| 35 | 2168 | 2019-05-03 | 732 |
| 36 | 1541 | 2019-05-09 | 886 |
| 37 | 2980 | 2019-05-11 | 828 |
| 38 | 2906 | 2019-06-07 | 1096 |
| 39 | 2696 | 2019-07-30 | 797 |
| 40 | 1738 | 2019-08-19 | 1018 |
| 41 | 1115 | 2019-08-23 | 640 |
| 42 | 2231 | 2019-09-03 | 695 |
| 43 | 1114 | 2019-09-08 | 1119 |
| 44 | 2357 | 2019-09-20 | 886 |
| 45 | 1006 | 2019-10-03 | 1075 |
| 46 | 1336 | 2019-11-07 | 856 |
| 47 | 1316 | 2019-11-09 | 882 |
| 48 | 2935 | 2019-11-16 | 1169 |
| 49 | 1112 | 2019-11-19 | 786 |
| 50 | 2667 | 2019-12-20 | 1151 |

**Loan Table:**

|  |  |  |
| --- | --- | --- |
| **loanNumber** | **branchID** | **amount** |
| 5790 | 4 | 30848 |
| 7403 | 2 | 35213 |
| 7700 | 1 | 40398 |
| 6040 | 5 | 40540 |
| 5001 | 4 | 28457 |
| 6700 | 4 | 48887 |
| 5055 | 4 | 35619 |
| 5590 | 2 | 31693 |
| 5121 | 5 | 31128 |
| 7562 | 5 | 35056 |
| 5067 | 4 | 40542 |
| 5141 | 5 | 30888 |
| 6973 | 1 | 45888 |
| 6177 | 2 | 44410 |
| 7339 | 3 | 43318 |
| 5216 | 4 | 46209 |
| 5387 | 2 | 46489 |
| 6082 | 3 | 38052 |
| 7771 | 1 | 31271 |
| 7843 | 5 | 29048 |
| 5810 | 5 | 26353 |
| 6381 | 3 | 42518 |
| 6275 | 5 | 48126 |
| 7742 | 2 | 39875 |
| 7630 | 1 | 48734 |
| 7986 | 3 | 38463 |
| 7743 | 4 | 36280 |
| 6623 | 2 | 46785 |
| 5779 | 3 | 48285 |
| 7880 | 3 | 36092 |
| 7588 | 4 | 30519 |
| 7310 | 3 | 44267 |
| 6889 | 2 | 30800 |
| 7550 | 5 | 40131 |
| 5376 | 4 | 48628 |
| 1000 | NULL | 35000 |
| 1001 | NULL | 36000 |
| 1002 | NULL | 20000 |
| 1003 | NULL | 28000 |
| 1004 | NULL | 42000 |

**Loan\_Borrower Table:**

|  |  |  |
| --- | --- | --- |
| **id** | **customerID** | **loanNumber** |
| 1 | 2 | 5790 |
| 2 | 2 | 7403 |
| 3 | 2 | 7700 |
| 4 | 3 | 6040 |
| 5 | 4 | 5001 |
| 6 | 3 | 6700 |
| 7 | 1 | 5055 |
| 8 | 5 | 5590 |
| 9 | 1 | 5121 |
| 10 | 1 | 7562 |
| 11 | 1 | 5067 |
| 12 | 3 | 5141 |
| 13 | 4 | 6973 |
| 14 | 4 | 6177 |
| 15 | 4 | 7339 |
| 16 | 1 | 5216 |
| 17 | 3 | 5387 |
| 18 | 4 | 6082 |
| 19 | 4 | 7771 |
| 20 | 3 | 7843 |
| 21 | 2 | 5810 |
| 22 | 3 | 6381 |
| 23 | 4 | 6275 |
| 24 | 4 | 7742 |
| 25 | 2 | 7630 |
| 26 | 3 | 7986 |
| 27 | 2 | 7743 |
| 28 | 5 | 6623 |
| 29 | 5 | 5779 |
| 30 | 5 | 7880 |
| 31 | 1 | 7588 |
| 32 | 5 | 7310 |
| 33 | 4 | 6889 |
| 34 | 2 | 7550 |
| 35 | 2 | 5376 |
| 36 | 13 | 1000 |
| 37 | 14 | 1001 |
| 38 | 15 | 1002 |
| 39 | 16 | 1003 |
| 40 | 17 | 1004 |

**Giver the above tables solve the following queries.**

1. **Write a query to get branch name wise total loan amount.**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. **Write a query to get branch name whose sum of loan amount is more than Rs.50,000/-**

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1. **Write a query to get all employees whose salary is in 5 thousands.**

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1. **Write a query to display one random customer details from the bank\_customer relation.**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. **Write a query to find average balance of accounts at Kothrud branch.**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. **Write a query to find minimum and maximum balance of accounts at Deccan branch.**

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1. **Write a query to add assets attribute in branch table.**

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1. **Write a query to find all customers with more than seven loans.**

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1. **Write a query to update assets attribute in branch table with the following conditions.**

**Branch Name Assets**

**'Paud Road' 25000**

**'MG Road' 45000**

**'Kothrud' 150000**

**'Camp' 95000**

**'Deccan' 100000**

**'Dadar' 125000**

**'Link Road' 135000**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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1. **Write a query to print the assets of 'Kothrud' branch and assets of 'Paud Road' branch in separate columns, also give heading as 'Kothrud Assets' and 'Paud Road Assets' to appropriate columns.**

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1. **Write a query to display branch details whose branch assets in more than the assets of the branch either of 'Paud Road' or 'Camp'.**

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1. **Write a query to display customer name who are not holding any bank account number.**

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1. **Write a query to display all customer names who have taken the loan but are not the bank account holder.**

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1. **Write al query to find all branches with at least one bank account.**

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1. **Write a query to display branch wise total sum of loan give to the customers.**

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**ANS.**

1. **select branchName, sum(amount) from branch, loan where branch.branchID = loan.branchID group by branchName;**
2. **select branchname, sum(amount) from branch, loan where branch.branchId = loan.branchID group by branchname having sum(amount) > 50000;**
3. **select \* from bank\_employee where truncate(salary/1000,0) = 5;**
4. **select \* from bank\_customer order by rand() desc limit 1;**
5. **select branchName, avg(balance) from branch, account where branch.branchID = account.branchID and branchName ='Kothrud' group by branchName;**
6. **select branchName, min(balance), max(balance) from branch, account where branch.branchID = account.branchID and branchName ='Deccan' group by branchName;**
7. **alter table branch add column assets int;**
8. **select customerName, count(\*) from bank\_customer, loan\_borrower where bank\_customer.customerID = loan\_borrower.customerID group by customerName having count(\*) > 7;**
9. **update branch set assets = case branchName when 'Paud Road' then 25000 when 'MG Road' then 45000 when 'Kothrud' then 150000 when 'Camp' then 95000 when 'Deccan' then 100000 when 'Dadar' then 125000 when 'Link Road' then 135000 end;**
10. **SELECT (select assets from branch where branchName ='Kothrud') 'Kothrud Assets', (select assets from branch where branchName ='Paud Road') 'Paud Road Assets'**
11. **select \* from branch where assets >all (select assets from branch where branchName in ('Paud Road', 'Camp'));**
12. **select customerName from bank\_customer where not exists (select \* from account where bank\_customer.customerID = account.customerID);**
13. **select \* from bank\_customer, loan\_borrower where bank\_customer.customerID = loan\_borrower.customerID and bank\_customer.customerID not in (select distinct customerID from account);**
14. **select distinct branchName from branch, account where branch.branchId = account.branchId;**
15. **select branchName, sum(amount) from branch, loan where branch.branchID = loan.branchID group by branchName;**