

BankBalance(id,name,bank,branch,balance)

- 1..Display the customer details who have even number as the id.
- 2.Calculate the interest of the customer
 - a)Interest = (21% of balance)* 1.78
 - b)Display Interest in ceil,floor,round format
- 3.Display the customer name along with their length.
- 4.Display the entire customer working in TMB or ICICI bank whose balance is greater than the average balance of 'SBI' bank.
- 5.Count the no.of Customer and Sum of balance of customer who have the letter 'r' in their name
- 6.Display the names of customer having maximum balance in bank where 'karthi' also have an account.
- 7.Display the bank names and sum of balance of that bank in which sum of balance of all customer is greater than 10000
- 8.Display the branch where more than 2 customers are having account.
- 9.Display the bank names and sum of the balance of than bank in which sum of balance of all customer is greater than 10000.
- 10.Display the number of customers in each bank.

ANSWERS:-

- mysql> Create database bankbalance;
➔ Query OK, 1 row affected (0.04 sec)
- mysql> use bankbalance;
➔ Database changed
- mysql> create table bankbal(id int primary key,name varchar(20) not null,bank varchar(20),branch varchar(20),bal decimal);
➔ Query OK, 0 rows affected (0.05 sec)

- mysql> desc bankbal;
 - ➔ +-----+-----+-----+-----+-----+
 - ➔ | Field | Type | Null | Key | Default | Extra |
 - ➔ +-----+-----+-----+-----+-----+
 - ➔ | id | int | NO | PRI | NULL | |
 - ➔ | name | varchar(20) | NO | | NULL | |
 - ➔ | bank | varchar(20) | YES | | NULL | |
 - ➔ | branch | varchar(20) | YES | | NULL | |
 - ➔ | bal | decimal(10,0) | YES | | NULL | |
 - ➔ +-----+-----+-----+-----+-----+
 - ➔ 5 rows in set (0.01 sec)
- mysql> insert into bankbal values(21,"Hari","SBI","VNR",56000);
 - ➔ Query OK, 1 row affected (0.01 sec)
- mysql> insert into bankbal values(22,"Rohan","TMB","SVKS",67980);
 - ➔ Query OK, 1 row affected (0.01 sec)
- mysql> insert into bankbal values(23,"Karthik","ICICI","MDU",87080);
 - ➔ Query OK, 1 row affected (0.01 sec)
- mysql> insert into bankbal values(24,"Arya","ICICI","MDU",90080);
 - ➔ Query OK, 1 row affected (0.01 sec)
- mysql> insert into bankbal values(25,"Yash","TMB","MDU",69000);
 - ➔ Query OK, 1 row affected (0.01 sec)
- mysql> insert into bankbal values(26,"Yamini","SBI","SVKS",45000);
 - ➔ Query OK, 1 row affected (0.01 sec)
- mysql> select *from bankbal;
 - ➔ +----+-----+-----+-----+-----+
 - ➔ | id | name | bank | branch | bal |
 - ➔ +----+-----+-----+-----+-----+

```

➔ | 21 | Hari | SBI | VNR | 56000 |
➔ | 22 | Rohan | TMB | SVKS | 67980 |
➔ | 23 | Karthik | ICICI | MDU | 87080 |
➔ | 24 | Arya | ICICI | MDU | 90080 |
➔ | 25 | Yash | TMB | MDU | 69000 |
➔ | 26 | Yamini | SBI | SVKS | 45000 |
➔ +---+-----+-----+-----+-----+
➔ 6 rows in set (0.00 sec)

```

QUERIES:-

- mysql> select * from bankbal where mod(id,2)=0;


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➔ +---+-----+-----+-----+-----+
➔ | id | name | bank | branch | bal |
➔ +---+-----+-----+-----+-----+
➔ | 22 | Rohan | TMB | SVKS | 67980 |
➔ | 24 | Arya | ICICI | MDU | 90080 |
➔ | 26 | Yamini | SBI | SVKS | 45000 |
➔ +---+-----+-----+-----+-----+
➔ 3 rows in set (0.01 sec)

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- mysql> alter table bankbal add interest decimal(10,5);


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➔ Query OK, 0 rows affected (0.03 sec)
➔ Records: 0 Duplicates: 0 Warnings: 0

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- mysql> update bankbal set interest=(0.21*bal)*0.78;


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➔ Query OK, 6 rows affected (0.01 sec)
➔ Rows matched: 6 Changed: 6 Warnings: 0

```
- mysql> select * from bankbal;


```

➔ +---+-----+-----+-----+-----+-----+
➔ | id | name | bank | branch | bal | interest |
➔ +---+-----+-----+-----+-----+-----+
➔ | 21 | Hari | SBI | VNR | 56000 | 9172.80000 |
➔ | 22 | Rohan | TMB | SVKS | 67980 | 11135.12400 |
➔ | 23 | Karthik | ICICI | MDU | 87080 | 14263.70400 |
➔ | 24 | Arya | ICICI | MDU | 90080 | 14755.10400 |
➔ | 25 | Yash | TMB | MDU | 69000 | 11302.20000 |
➔ | 26 | Yamini | SBI | SVKS | 45000 | 7371.00000 |
➔ +---+-----+-----+-----+-----+-----+
➔ 6 rows in set (0.00 sec)

```

- mysql> select ceil(interest) as ceil,floor(interest) as floor,round(interest) as round from bankbal;

```

➔ +-----+-----+-----+
➔ | ceil | floor | round |
➔ +-----+-----+-----+
➔ | 9173 | 9172 | 9173 |
➔ | 11136 | 11135 | 11135 |
➔ | 14264 | 14263 | 14264 |
➔ | 14756 | 14755 | 14755 |
➔ | 11303 | 11302 | 11302 |
➔ | 7371 | 7371 | 7371 |
➔ +-----+-----+-----+
➔ 6 rows in set (0.00 sec)

```

- mysql> select name,length(name) as Length from bankbal;

```

➔ +-----+-----+
➔ | name | Length |
➔ +-----+-----+
➔ | Hari | 4 |
➔ | Rohan | 5 |
➔ | Karthik | 7 |
➔ | Arya | 4 |
➔ | Yash | 4 |
➔ | Yamini | 6 |
➔ +-----+-----+
➔ 6 rows in set (0.00 sec)

```

- mysql> select * from bankbal where bank="TMB" or bank="ICICI" and bal>(select avg(bal) from bankbal

- group by bank having bank="SBI");

```

➔ +---+-----+-----+-----+-----+-----+
➔ | id | name | bank | branch | bal | interest |
➔ +---+-----+-----+-----+-----+-----+
➔ | 22 | Rohan | TMB | SVKS | 67980 | 11135.12400 |
➔ | 23 | Karthik | ICICI | MDU | 87080 | 14263.70400 |
➔ | 24 | Arya | ICICI | MDU | 90080 | 14755.10400 |
➔ | 25 | Yash | TMB | MDU | 69000 | 11302.20000 |
➔ +---+-----+-----+-----+-----+-----+
➔ 4 rows in set (0.01 sec)

```

- mysql> select * from bankbal where bank in ("TMB","ICICI") and bal > (select avg(bal) from bankbal w
- here bank in("SBI") group by bank);

```

➔ +----+-----+-----+-----+-----+-----+
➔ | id | name  | bank | branch | bal  | interest |
➔ +----+-----+-----+-----+-----+-----+
➔ | 22 | Rohan | TMB  | SVKS   | 67980 | 11135.12400 |
➔ | 23 | Karthik | ICICI | MDU    | 87080 | 14263.70400 |
➔ | 24 | Arya   | ICICI | MDU    | 90080 | 14755.10400 |
➔ | 25 | Yash   | TMB  | MDU    | 69000 | 11302.20000 |
➔ +----+-----+-----+-----+-----+-----+
➔ 4 rows in set (0.00 sec)

```

- mysql> select count(id),sum(bal) from bankbal where name like "%R%";

```

➔ +-----+-----+
➔ | count(id) | sum(bal) |
➔ +-----+-----+
➔ |      4 | 301140 |
➔ +-----+-----+
➔ 1 row in set (0.00 sec)

```

- mysql> select count(id),sum(bal) from bankbal where name like "%r%";

```

➔ +-----+-----+
➔ | count(id) | sum(bal) |
➔ +-----+-----+
➔ |      4 | 301140 |
➔ +-----+-----+
➔ 1 row in set (0.00 sec)

```

- mysql> select name from bankbal where bal=(select max(bal) from bankbal where bank=(select bank from bankbal where name ="karthik"));

```

➔ +-----+
➔ | name |
➔ +-----+
➔ | Arya |
➔ +-----+
➔ 1 row in set (0.00 sec)

```

- mysql> select bank,sum(bal) from bankbal group by bank having sum(bal)>10000
 ➔ ;
 ➔ +-----+-----+
 ➔ | bank | sum(bal) |
 ➔ +-----+-----+
 ➔ | SBI | 101000 |
 ➔ | TMB | 136980 |
 ➔ | ICICI | 177160 |
 ➔ +-----+-----+
 ➔ 3 rows in set (0.00 sec)
- mysql> select branch from bankbal group by branch having count(*)>1;
 ➔ +-----+
 ➔ | branch |
 ➔ +-----+
 ➔ | SVKS |
 ➔ | MDU |
 ➔ +-----+
 ➔ 2 rows in set (0.00 sec)
- mysql> select bank ,sum(bal) from bankbal group by bank having sum(bal)>10000;
 ➔ +-----+-----+
 ➔ | bank | sum(bal) |
 ➔ +-----+-----+
 ➔ | SBI | 101000 |
 ➔ | TMB | 136980 |
 ➔ | ICICI | 177160 |
 ➔ +-----+-----+
 ➔ 3 rows in set (0.00 sec)
- mysql> select bank ,bal from bankbal group by bank having bal>10000;
 ➔ +-----+-----+
 ➔ | bank | bal |
 ➔ +-----+-----+
 ➔ | SBI | 56000 |
 ➔ | TMB | 67980 |
 ➔ | ICICI | 87080 |
 ➔ +-----+-----+
 ➔ 3 rows in set (0.00 sec)

- mysql> select bank, count(*) as count from bankbal group by bank;

➔ +-----+-----+

➔ | bank | count |

➔ +-----+-----+

➔ | SBI | 2 |

➔ | TMB | 2 |

➔ | ICICI | 2 |

➔ +-----+-----+

➔ 3 rows in set (0.00 sec)