consider the example:

Branch (Branch-name, Branch-city, Assets)

customer (customer-id, castomer-name, ecustomer-streed,

customer-city)

Account (Account-number, Branch-name, Amount)

Loan (Depositor Loan-number, Branch-name, Amount).

Depositor (customer-id, Account-number)

Borrower (customer-id, Loan-number)

Write, SQL queries far, the following:

1. Find all customers who have account but no loan in bank.

select customer name.

from customer id in (select customer id

from depositor) and

customer id not in (select customer id)

from borrower):

2. Delete all loans between 10,000 and 25,000.

Delete amount
from loan

where amount between 10,000 and 25,000 of 3. Find the name of all customers who have a loath at ustara branch.

from eustomer name where customer id in (

where b. loan-number = 1. loan-number and 1. branch-name = 'uttara branch'

account.

select customer-name,
where customer-id in (
select customer-id from depositor) and
customer-id in (select, customer-id from
borrnower):

5. Delete all loans with an amount in the range of o to 500;

where amount between o and 500;

6. Find the average account balance at each brown select bromch-name, and (balance) as average-balance from account

some a some of the grant and

7 Find the name of all branches in the loan relation.

from loans

S. Deduct 34. service charge from account balance for those who have both loon and account, otherwise deduct 5% charge!

cipidate account

set balance = case

when account-number in (

select d. account-number.

from depositore d, borrowerb

where d. customer-id = b.customer-id)

then

balance - balance * 0'03

Else

Else balance - balance * 0.09 End;

- o Increage all balances by 5 percent.

 update account

 set balance = balance *1.05
- 10. Find the number of depositors for each branch.

select branch-name, count (distinct
d.customer_id) as no-of-depositor
from depositored, account a
where d.account number = a.caccount number
croup by branch-name;

select max(balance) as largest-balance

Delete all sajid's accounts record.

Delete from account
where account number in (

depositored, customeric

where d. customer.id = c. customer.id and customer-name = 'Asif');

the bank.

select max (balance) as second highest balance from account where Balance < (select max (balance) from account);

or,

select branch-name, balance as second-highest-balance from (
select branch-name; balance,
Dense-reank() over (order by balance Desc) as reank from account) as ranked-balances where mank = 2;

14. Find all customers who live in the same city as the brance where they have an account but no loan.

select c.customer-name as customer

from customer e

where customer-id in (

select customer-id from

depositored, account a

where dead account-number = a account

number) and

customer-id not in (select customer-id

from borrowers);

0

6

15. Find branches that have no accounts.

select branch-name
from branch

where branch-name not in (
select branch-name from account);

16. Find branches where total loan number amount is greater than 50,000 select branch-name

from loan Group by branch name where sum (amount) > 50000;

17. Retrieve distinct customers who have either an account or anioan.

select distinct customer name from customer where customer id in (select constomer id from depositored or customer-id in (select customerid from borrower 5;

18. Retailere the branch-name with the maximum number of accounts select breamshrame from account Crocoup by breanch name order by count (account-number) Desc cimit 1;

19. Find the maximum amount issued in each select branch-name, max (amount) as max-amount from loan

caroup by branch-name;

20, find customers whose names start with 'A' .

> select constance name from constances where constance like 'Ay,';

employee (employee id, employee name, sheed, city).
works (employee id, company-name, salari)
company (company-name, city)
manages (employee id, manager id)

write sal queries.

1. Find the company name that has the most employees.

screet company-name
from works group by company-name
order by count (employee id) dege
unit 1;

- 2. Find the average salaries of each company. name, and (salary) as a verage salary from works
- 3. Find all employees who we in Ag eity, but their company is not in etg.

select e.employee.nane
from employee e

join works won e.employee.id = w.employee id

join company c on w.company-name - c.company-name

join company c on w.company-name - c.company-name

cuhere e.employee.eity = Barishal and

e.company-cety!= | Barishal';

4. Find the name of all employees who work for first bank corporcation.

ficom employee e
join works w on e.employee-id=w.employee-id

where a company - name = "First bank Co.";

5. Find the name of, eities, salaries of all employees who work IFIC.

select e, employee name, e, employee eity,

From employee e join works a on e employee id = wemployee id where w. company-name = first bank co. :

6. find the names of employees who donot work for first bank co.

select e employee name
from employee e

Join wordes w on e employee id = w. employee - i

where w. company-name ! = "first bank co"

7 Find total salaries of each company.

select company-name, samped (salary) as

total_salary from works

Group by company-name,

10. Find employee name, company name, and employee () of the employee who earns the second highest salery.

select employee name, company-name, employee city
from employee. e
join works won e employee id = w. employee. id
where w = salary = (select max(salary) from
works where
salary < (select max(salary))
. From works));

11. 3 rd ou 15. 000 ou

13. Find companies with morre than 5 employees.

select company-name

from works chroup-by company-name

Having count (employee-id) > 5;

14, same as 8

15. Delete all records where an employee has no manager.

Delete from manages where manager-id is null;

16. Assign a new manager to employees who currently have no manager :

cipdate manages

set manager-id= (select managerid from manager)

where manager-id is not null (init. 1)

where manager-id is hall;

8. Crive all employees of first bank co. a 20%. salary traise

the control of the co

set salary = salary x 1.2 where company name = 'First bank co'

9. Find the second highest salary .

Select max (salary) as second-highest salary
from works
where salary < (select max (salary) from
works);

20

select employee name, salary as second-highest from (
select employee name, salary
Dense rank() over (order, by salary desc)
as rank from works) as ranked-salary
where rank = 2

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