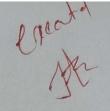


BHARATIYA VIDYA BHAVAN'S

SARDAR PATEL INSTITUTE OF TECHNOLOGY

MUNSHI NAGAR, ANDHERI (WEST), MUMBAI – 400 058, India (Autonomous College Affiliated to University of Mumbai)



Duration: 1 hour Marks: 25 Marks General Instructions: UCID: 2023510057 None: Adlit Thakor

Viva will be taken at the time of practical as well as after the practical if required.

The figures to the right indicate full marks.

If you are using any additional information, state it clearly.

Once you finish with the code show it to the examiner for testing. Write your answer in Word file and upload it on Moodle.

| 1 A) | Consider the bank database given below. The primary keys are underlined and the data types are specified: | 10 |
|------|--|----|
| | BRANCH(branch_name:varchar2(30),branch_city:varchar2(30),assets:number(10)) CUSTOMER(customer_name:varchar2(30),customer_street:varchar2(30), customer_city:varchar2(30)) | |
| | ACCOUNT(account_number:number(10), customer_name:varchar2(30), branch_name:varchar2(30), balance:number(10)) | |
| | a) Create the above tables by properly specifying the primary keys and the foreign keys and named constraints.b) Enter atleast five tuples for each relation. | |
| | c) Write SQL query to display details of customer whose living city is same as branch city. | |
| | d) Write SQL query to find average balance of each branch.e) Write SQL query to truncate all the relations. | |
| B) | Write PL/SQL code to give grant and revoke all the privileges to RMAN user on Account relation. | 10 |
| C) | List customer details, account details and branch details using join. | 5 |

1A Creat dotabase fymca-aditi; use fymca-aditi

(30) Coate toble bronch (bronch name vortham (30) primary key, branch nity vortham (30), assets ent);

Create toble assers (customer name vortham (30) primary key, customer street vortham (30), customer city vortham (30);

Create toble account (account nomber int, customer name vareham (30), branch name vareham (30), blance decimal (10,2));

alter table account add constatint FKI foreign Key (customer-name)
seferences customer Coustomer-name),
add constatint FK2 foreign Key (branch-name) references branch (branch-name)

```
Prosest ento branch values ("Collaba branch", "memba;", 10000), (newdelhi, Delhi",
  ("It see branch', 'pune', 2000); ('station branch', 'noshik', 4000);
"nest ento customer ('aditi, 'tojaji path', "mumbar'), ('ankita', 'ambali', ordehi
('do', 'hioanandari', 'there'), ('shyoob', 'mara! 'mumbai,'), ('nidhi', 'hill road',
 insert into account values (123, 'adit', 'collababarah', 1000), (234,
 'ankita', 'sector 2', 2000), (345, 'rej', 'station branch', 3000), (456, 'shoyab', 'newdelhi', 10000), (567, 'nedthi', 'it see branch', 100);
1A-C) select * from customer as c
   join account as a on (c. customer_none = a. customer_name)
join branch as b on (d. branch_none = b. branch_name)
   whose c. customer_city = b. branch_city;
IAd) select ang (blance) from account
      group by branch name;
1AC) tourcate table branch;
     trancate table conformer;
     tornoite table account;
1B) Create definer : root @ localhost procedure grantsevoke (action varelan (10))
    Begin
    Case cotton
     when 'goont' then
     grant all pringleges on tymo-adition 'RMAN'@'localhast';
     when 'sevoke' then
     sevote privileges on fyma-aditi amount from 'Rman' @ 'localhout';
    endone
    Fnd;
-> create user 'RMAN' @ 'boolhoot' identified by 'pass!;
    call grant sevore ('grant');
   call grantsevoke ('sevoke');
```

IC) Select from customer os c intert join account as a on (cicustoner-name = a, coustoner-name)

left join brank as b on (a. bronch-name: b. branch-name);