BHARATIYA VIDYA BHAVAN'S

SARDAR PATEL INSTITUTE OF TECHNOLOGY

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

P. Gaikwad TE

Duration: 1 hour
Marks: 25 Marks
UCID: 2023510050
General Instructions:
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.

Q 1 A)	**Consider the bank database given below. The primary keys are underlined and the data types are specified:** **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.	10
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

Q.1 A) i) create database student;
use student;
create table branchBRANCH(branch_name varchar(30) primary key, branch_city varchar(30), assets decimal(30));
create table CUSTOMER(customer_name varchar(30) primary key, customer_street varchar(30), customer_city varchar(30));
create table ACCOUNT(account_number decimal(10) primary key, customer_name varchar(30), branch_name varchar(30), balance int);

ii) insert into BRANCH values ('SBI', 'ANDHERI', 2), ('KOTAK', 'PUNE', 3), ('HDFC', 'NASHIK', 7), ('ICICI', 'ANDHERI', 7), ('UNION', 'PUNE', 9);
insert into CUSTOMER values('PRATHAM', 'ANDHERI', 'MUMBAI'), ('RAHUL', 'PUNE', 'KATRAJ'), ('NIKHIL', 'NASHIK', 'MAHARASHTRA'), ('DIVYA', 'ANDHERI', 'MUMBAI'), ('ANAMIKA', 'PUNE', 'KHED');

insert into ACCOUNT values (2023, 'Prathum', 'SBI', 1000), ('5100', 'RAHUL', 'Kotak', 2000), (2100, 'NIKHIL', 'HDFC', 5000), (4100, 'DIVYA', 'ICICI', 500), (6100, 'ANAMIKA', 'UNION', 700);

iii) SELECT c.customer_name, c.customer_street, c.customer_city, a.account_number, a.balance, b.branch_name
FROM CUSTOMER c, ACCOUNT A, Branch b
WHERE
c.customer_name = a.customer_name
AND a.branch_name = b.branch_name
AND c.customer_city = b.branch_city;

iv) SELECT AVG(balance) From ACCOUNT;

v) truncate table BRANCH;
truncate table CUSTOMER;
truncate table ACCOUNT;

Q.2
→ create DEFINER = 'root'@'localhost' PROCEDURE 'grant_a'()
BEGIN
GRANT all on user to 'RMAN'@'localhost';
COMMIT;
END

create DEFINER = 'root'@'localhost' PROCEDURE 'revoke_a'()
BEGIN
REVOKE all on user to 'RMAN'@'localhost';
END

Q.3
→ select ~~* From BRANCH~~ c.customer_name, c.customer_street, c.customer_city, a.account_number, a.balance, b.branch_name
FROM
CUSTOME c
INNER JOIN
ACCOUNT a ON c.customer_name = a.customer_name
INNER JOIN
BRANCH b ON a.branch_name = b.branch_name;