

## BHARATIYA VIDYA BHAVAN'S

## SARDAR PATEL INSTITUTE OF TECHNOLOGY

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

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Duration: 1 hour Marks: 25 Marks 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. 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) List the details of all customers who belong to the 'P K Road' branch. d) List the customers who live in Mumbai and have their branch in Nagpur city. e) Give the details of all customers who have a balance above Rs.100000	
B)	Create a trigger, which will display a message 'Balance below minimum!', whenever an updation of the ACCOUNT table causes the balance to fall below Rs. 1000.	10
C)	List the customers who have the same living city and branch city	5

create table sustainer (customer name varchor(30) primary key, breanth - city varchor(30), asset int);

create table customer (customer name varchor(50) primary key, customer street varchor(30), customer city varchar(50)];

create table account (account number int primary key, customer name varchar(30), balance int);

varchar(30), branch name varchar(50), balance int);

alter table account add constraint cust-the foreign key (customer name) teterences customer caustomer name) on update cascade;

alter table account add constraint branch-the foreign key (branch name add constraint branch the foreign key (branch

('PEROAd', 'Mumbai'), ('Nehm Road', 'Mumbai', 100000), ('M G Road', 'Nagpur', 150000), ('James Road', 'Nagpur', 150000), ('James Road', 'Pune', 100000), ('Frank Road', 'Nagpur', 120000); insert into customer values ('Harsh', 'Frank St', 'Mumbai'), ('Tim', 'Gilbert St', 'Mumbai'), ('Jim', 'Kernel St', 'Nagpur'), ('Ram', 'Paint St', 'Pune'), ('Kumar', 'Jawb St', 'Mumbai');

insert into account values (101, 'Harsh', 'PK Poad', 15000), (102, 'Tim', 'M & Road', 40000), (101, 'Jim', 'James Road', 20000), (104, 'Ram', 'Frank Road', 25000), (105, 'Kumar', 'Nehru Foad', 12000).

1. () select & from amount where branch name = '1 k Road';

inner join & account & using (customer - name)
inner join branch using (branch - name)
where customer customer - city: Mumbai and branch branch - city: wagging

1.e) select \* from account when balance 7100000;

B) creak definer s'noot'@'bocalhost' trigger 'account after-update'
after update on 'account'
for each row
begin

"if (new.balance <1000)

then signal sqlstate '45000' set message text = 'Balance
below Minimum!';

end if;

ens,

() select auctomer-name, customer-ity as Common-ity form
customer
inner join &accounts
customer-name)
inner join branch
using (branch-name)
where austomer ustomer-ity = branch-branch-ity;