BHARATIYA VIDYA BHAVAN'S

SARDAR PATEL INSTITUTE OF TECHNOLOGY

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

executed

Duration: 1 hour **UCID:** 2023500Z9
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. 1 A)	**Consider the Race database given below. The primary keys are underlined and the data types are specified:** **Horse (horse_name:string, age:number,not null, weight:number, trainer:string)** **Rides (horse_name:string, race_name:string, jockey:string, position:number)** **Race (race_name:string, course:string, length:number(ckeck length between 20m to 300m))** 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 a query in SQL to extract a string from horse_name column from position 2 and find out the length of the sub string extracted with horse_ name. d) Course "Mumbai" increased the course length by 20m.Write a query to reflect these changes e) To list in alphabetic order all horse_namewhich has been ridden by Mark.	**10**
B)	Write a PL/SQL block to demonstrate the use of Exception Handler.	**10**
C)	Get the highest position of horses in races on the Aintree course which has been ridden by Tony.	**5**

a) create table Horse (horse_name varchar(30) primary key, age int, weight int, trainer varchar(30));

create table Rides (horse_name varchar(30) references Horse(horse_name), race_name varchar(30) references Race(race_name), jockey varchar(30), position int);

create table Race (race_name varchar(30), course varchar(30), length int);

b) insert into Horse values ('rani', 12, 56, 'abhijit'), ('dhanno', 22, 75, 'jaykar'), ('chetak', 32, 85, 'mahesh'), ('moti', 33, 68, 'ayurved'), ('ram', 31, 76, 'charudatta');

insert into Rides values ('rani', 'ABC', 'abc', 1), ('dhanno', 'DEF', 'def', 2), ('chetak', 'GHI', 'ghi', 3), ('moti', 'JKL', 'jkl', 4), ('ram', 'MNO', 'mno', 5);

insert into Race values ('abc', 'mumbai', 30), ('def', nagpur, 120) ('ghi', 'pune', 150), ('JKL', amravati, 130), ('hij', 'nagpur, 110);

c) Select horse_name, substr(horse_name, 2) as extracted_substring, length (substr(horse_name, 2)) as length_of_substring from Horse;

d) Update Race set length = length + 20 where course = 'mumbai';

e) Select ~~H.H~~ H.horse_name from Rides R join Horse H on R.horse_name = H.horse_name where trainer = 'avgved' order by H.horse_name;

B) CREATE DEFINER = 'root'@localhost' procedure 'trainer_table'()
BEGIN
Declare continue handler for 1146
select ~~'test tab~~ 'trainer table is not available' message;
select * from trainer;
Select * from Horse;
End
call trainer_table();

C) Select MAX(position) as highest_position from Rides R
join Race C on R.race_name = C.race_name
where c.course = 'nagpur' and R.jockey = 'def';