

ads assigement-1

19bca089



March 13, 2021

CMPICA

CHARUSAT

CREATE TABLE student (

studentid VARCHAR2(6) PRIMARY KEY,

name VARCHAR2(30),

surname VARCHAR2(20),

birthdate DATE,

gender CHAR(1),

cource VARCHAR2(10),

marks NUMBER(3)

);

CREATE TABLE borrows (

borrowid number(10),

studentid VARCHAR2(6) REFERENCES student(studentid),

bookid NUMBER(5) PRIMARY KEY,

takendate DATE

);create table books

(

bookid number(10) references borrows(bookid),

pagecount number(5),

authorid number(10) primary key,

typeid number(10) unique

);

create table authors

(

authorid number(10) references books(authorid),

name varcahr(20),

surname varchar(20)

);

Value insertion :-

Student :-

insert into student values(

'ab01','abhay','patel','02-jun-02','m','BCA',70

);insert into student values(

'ab02','vijay','shah','12-may-02','m','BSCit',69

);

insert into student values(

'ab12','seema','nayak','21-mar-97','m','BCA',89

);

insert into student values(

'ab06','niyati','patel','19-jan-01','f','BSCit',59

);

insert into student values(

'ab15','akshay','rajput','05-feb-98','m','BCA',70

);

Borrows :-

insert into borrows values(

11234,'ab01',123,'02-jan-19'

);

insert into borrows values(

15324,'ab02',523,'12-jun-19'

);insert into borrows values(

14131,'ab15',141,'13-mar-20'

);

insert into borrows values(

11123,'ab06',543,'22-may-19'

);

insert into borrows values(

13454,'ab12',343,'17-aug-20'

);

Books :-

insert into books values(

123,'c language',250,101,5001

);

insert into books values(

523,'Java',251,102,5002

);

insert into books values(

141,'python',253,103,5003

);insert into books values(

543,'advance c',254,104,5004

);

insert into books values(

343,'php',255,105,5005

);

Authors :-

insert into authors values(

101,'akhil','verma'

);

insert into authors values(

102,'salman','jitodiya'

);

insert into authors values(

103,'aishwarya','singh'

);

insert into authors values(

104,'Tulsi','sharma'

);insert into authors values(

105,'akriti','patel'

);

Types :-

insert into types values (

5001,'c language'

);

insert into types values (

5002,'Java'

);

insert into types values (

5003,'dotnet'

);

insert into types values (

5004,'c sharp'

);

insert into types values (

5005,'bootstrap'

);Queries :-

i) Display all data of student table

SELECT \* FROM STUDENTS;

ii) Display all data of book table

SELECT \* FROM BOOK;

iii) Display all data of authors table

SELECT \* FROM AUTHORS;

iv) Display all data of types table

SELECT \* FROM TYPES;

v) List name, surname and class from students

SELECT NAME,SURNAME,COURSE FROM STUDENTS;

vi) List names of students in a way that they are seen only once in

student table

SELECT DISTINCT NAME FROM STUDENTS;

vii) List the students studying in course BCA

SELECT NAME,COURSE FROM STUDENTS WHERE COURSE='BCA';

viii) Select name of all students starting with A SELECT \* FROM STUDENTS WHERE NAME LIKE 'A%' ;

ix) Select books having page count between 1 and 100

SELECT BOOK\_ID,PAGE\_COUNT FROM BOOK WHERE PAGE\_COUNT

BETWEEN 1 AND 100;

x) List all the books in ascending order of their names

SELECT \* FROM BOOK ORDER BY NAME