AMRITA VISHWA VIDYAPEETHAM

AMRITA SCHOOL OF ENGINEERING, COIMBATORE

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Academic year	:	2022-2023 Odd Semester
Branch / Semester	:	Int. M. Sc DS – III Year / Sem: 05
Course Code and Name	:	18CSC381 - Database Management Systems Lab
Objective	:	Views and Sequence in SQL
Component	:	Evaluation 2 – 11.10.2022
Rubrics	:	Table Creation :5
		Queries : 20
		Viva : 5
		Total : 30
Total Marks	:	**30 (Converted to 10)**
Submission	:	MS Forms
Form Link	:	https://forms.office.com/r/N2XeXHQRT2
Deadline for Submission	:	11/10/2022 4.15 PM

SET 1

Tables:

TABLE SAILORS

Column	Null?	Type	ref
SID	NOT NULL	number	FK to RESERVES
SNAME	-	character	
RATING	-	number	
AGE	-	character	

TABLE BOATS

Column	Null?	Type	ref
BID	NOT NULL	Number	FK to Reserves
BNAME	-	character	
COLOUR	-	character	

TABLE RESERVES

Column	Null?	Type
SID	NOT NULL	number
BID	NOT NULL	number
DAY	NOT NULL	date

insert into sailors values(22,'DUSTIN',7,45);
insert into sailors values(29,'BRUTUS',1,3);
insert into sailors values(31,'LUBBER',8,5);
insert into sailors values(32,'ANDY',8,25);
insert into sailors values(58,'RUSTY',10,35);
insert into sailors values(64,'HORATIO',7,35);
insert into sailors values(71,'ZORBA',10,16);
insert into sailors values(74,'HORATIO',9,40);
insert into sailors values(85,'ART',3,25);
insert into sailors values(95,'BOB',3,63);

insert into boats values(101,'INTERLAKE','BLUE');
insert into boats values(102,'INTERLAKE','RED');
insert into boats values(103,'CLIPPER','GREEN');
insert into boats values(104,'MARINE','RED');

insert into reserves values(22,101,'10-OCT-2022');
insert into reserves values(22,102,'10-OCT-2022');
insert into reserves values(22,103,'08-OCT-2022');
insert into reserves values(22,104,'07-OCT-2022');
insert into reserves values(31,102,'10-NOV-2022');
insert into reserves values(31,103,'06-NOV-2022');
insert into reserves values(31,104,'12-NOV-2022');
insert into reserves values(64,101,'05-SEP-2022');
insert into reserves values(64,102,'08-SEP-2022');
insert into reserves values(74,103,'08-SEP-2022');

QUESTIONS:

1. Write down the constraints to Update the Views in SQL.(3m)
2. Write a View to Select the sids of sailors who have reserved a red boat. (2m)
3. Write a View to Select the names of sailors who have reserved atleast one boat. (2m)
4. Write a View to Select the names of sailors who have not reserved a red boat. (2m)
5. Write a View to Select the name and age of oldest sailor(2m)
6. Update the ratings by 3 points for sailors above age 35(2m)
7. Update the date of sid 101 as todays date, use date function.(2m)
8. Create the following table and insert 5 in each table and to prove the execution of sequence in SQL

   Tables:

   create table author(
     id   NUMBER(6),
     name   VARCHAR2(20) NOT NULL,
     phone_number VARCHAR2(20)
)

   Question:

   A. Note: author_id should be automatically generated through sequence (2m)
   B. Keep the minimum value as 1 and Max value as 5 and repeat the cycle. (2m)
   C. Print the next value of the pointer focusing the sequence(1m)

set 1