## R INSTITUTE OF TECHNOLOGY Agnroved by AICTE, New Delhi & Permanently Affiliated to JNTUH, Hyderabad & Accredited by NBA, NAAC with 'A Grade)

Database Management Systems =

1) Find sailors whose rating is better than some sailor called Horatio. (Any)

SOL> select s. sid from sailors s where 5. rating > any (celect sz rating from sailors sz where Sz name, horatio). output: SID

4) Find

32 2) Find the sailors with the highest rating. (All)

SQL> select sisial from sailors where Sirating > = all (select Szirating from sailors sz); Output:

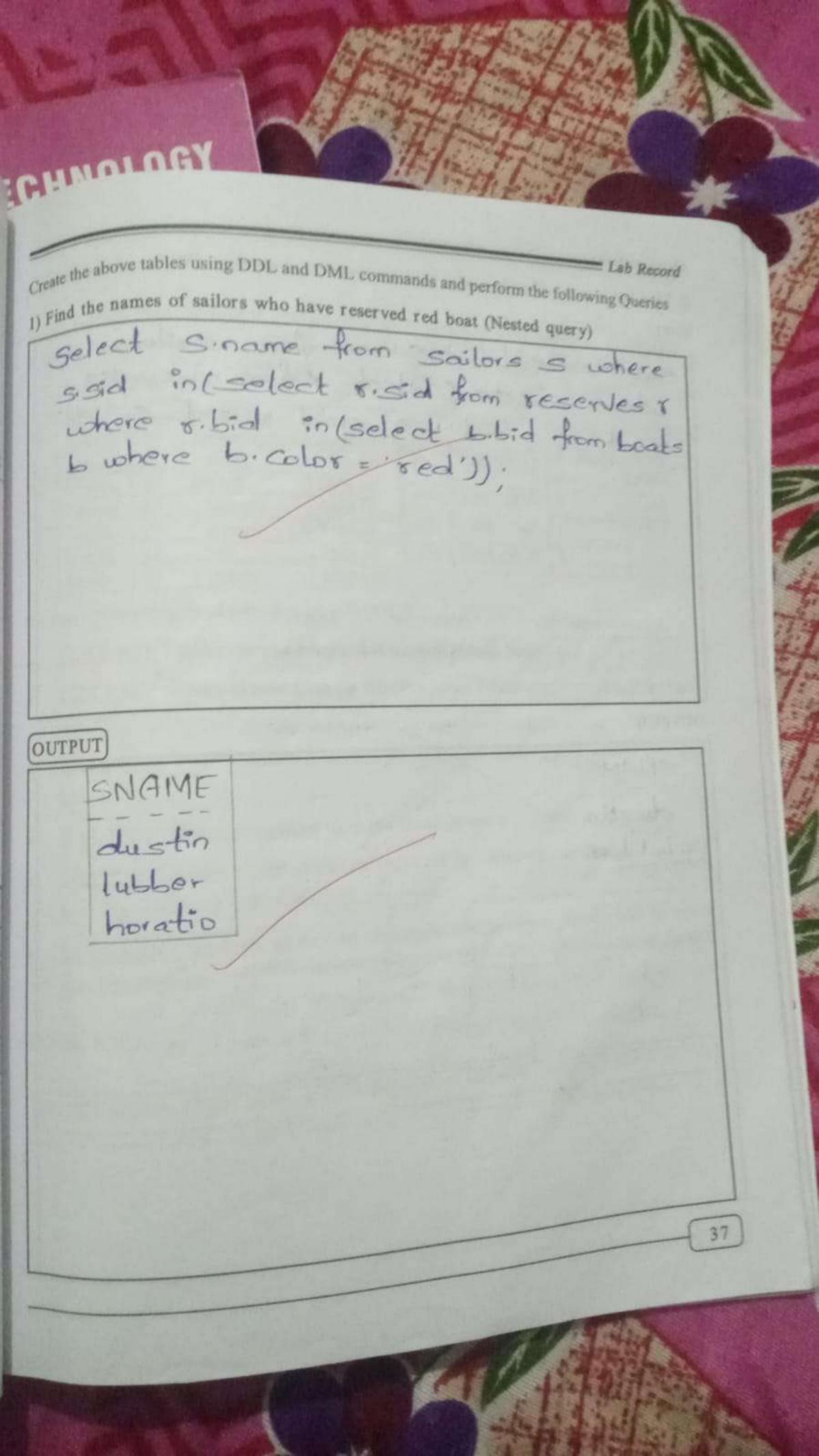
3) Find the names of sailors who have reserved both a red and a green boat. (In)

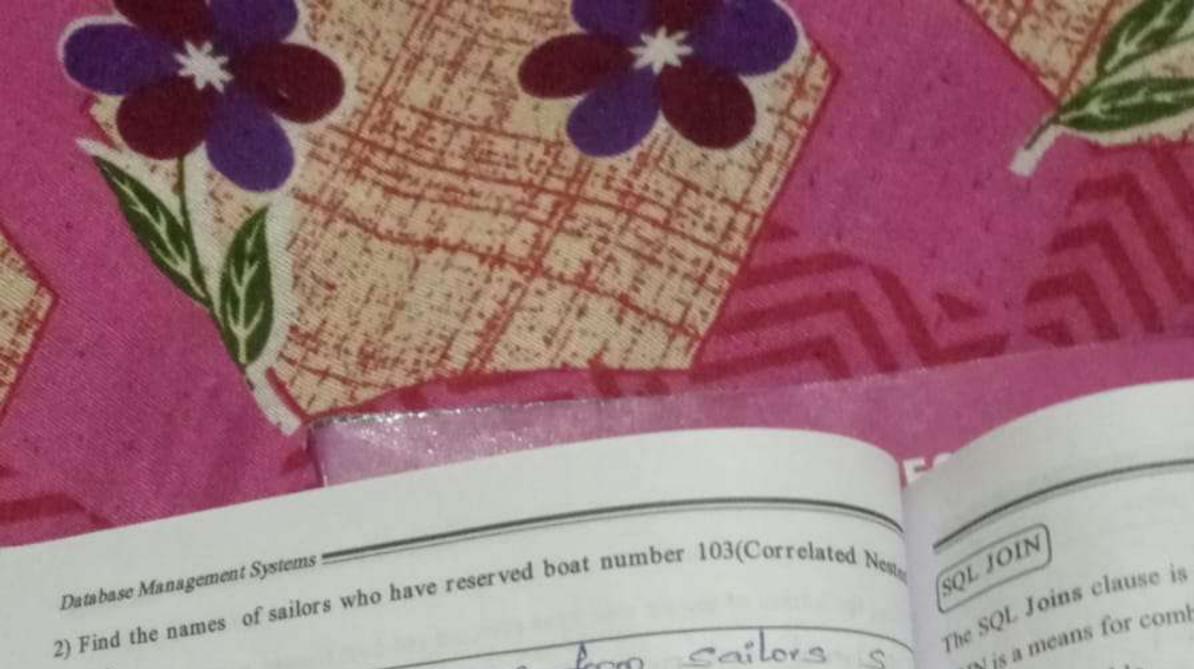
SOLD select sinance from sailors s, reserves r, boots b, where s. sid = r. sid and r. bid = b. bid and b. colour = 'red' and Siname intelect Sa. Sname from sailors Sz. Loats Lz, reserves rz, where Sz. sid = rz. sid and rz. bid = bz. bid and by color - 'green'; output

SNAME

the names of sailors who have reserved boat 103.(Exists) select siname from sailors suchere exists (select & from reserves & where exists 103 and r. sid = s. sid). SNAME Juler Horatio 5) Find the names of sailors who have reserved all boats. (Not exists) SILY select soname from sailors swhere not exists (select b. bid from books b where not exists (select r. bid from reserves r where 8.bid = b.bid and r.sid = s. sid): output SNAME 6) Find the names of sailors who have reserved a red and a green boat. (Union) SOL select soname from sailors s, reserves r, books b where sisid = risid and r. bid = b. bid and b. color = 'red' Select So. sname from spilors So, reserves 12, books be where Sz. Sid = 12. Sid and 12. bid = be bed and be color = green; autput. 33

Database Management Systems 7) Find the names of sailors who have reserved both a red and a green boat of Sailors Sailors Sailors SOL> select shame from Sailors & reserve VIVA QUE r, books b where siside ribid and Whati b. color : 'red' Ans. UN Tako Select Si Sname from sailors Si, select select select by where said: reserves or bid by bid and brody green'; output: 3. Wh SNAME Ans.\_\_ Horatio D 8) Find the names of sailors who have reserved a red and a green boat. (Union Al Ans.\_ SQL > select siname from sailors s, resentes , boats L, where so sid = 4. gild sid and r. Lid . L. Lid and L. color = "red" Union all select Sz. snowne from sailors Sz, boots by Ans. reserves 82 where Sz. Sid = 12. sid and 72. bid: b2. bid and b2. color - green; SNAME Dustin Horatio Dustin Dustin Lubbor Lutter





query)

sald select s sname from sailors s where exists (select \* from reserves & where &. bid: 103 and &. sid: s. sid);

OUTPUT

SNAME Lubber

The SQL Joins clause is JOIN is a means for comb

Customer table

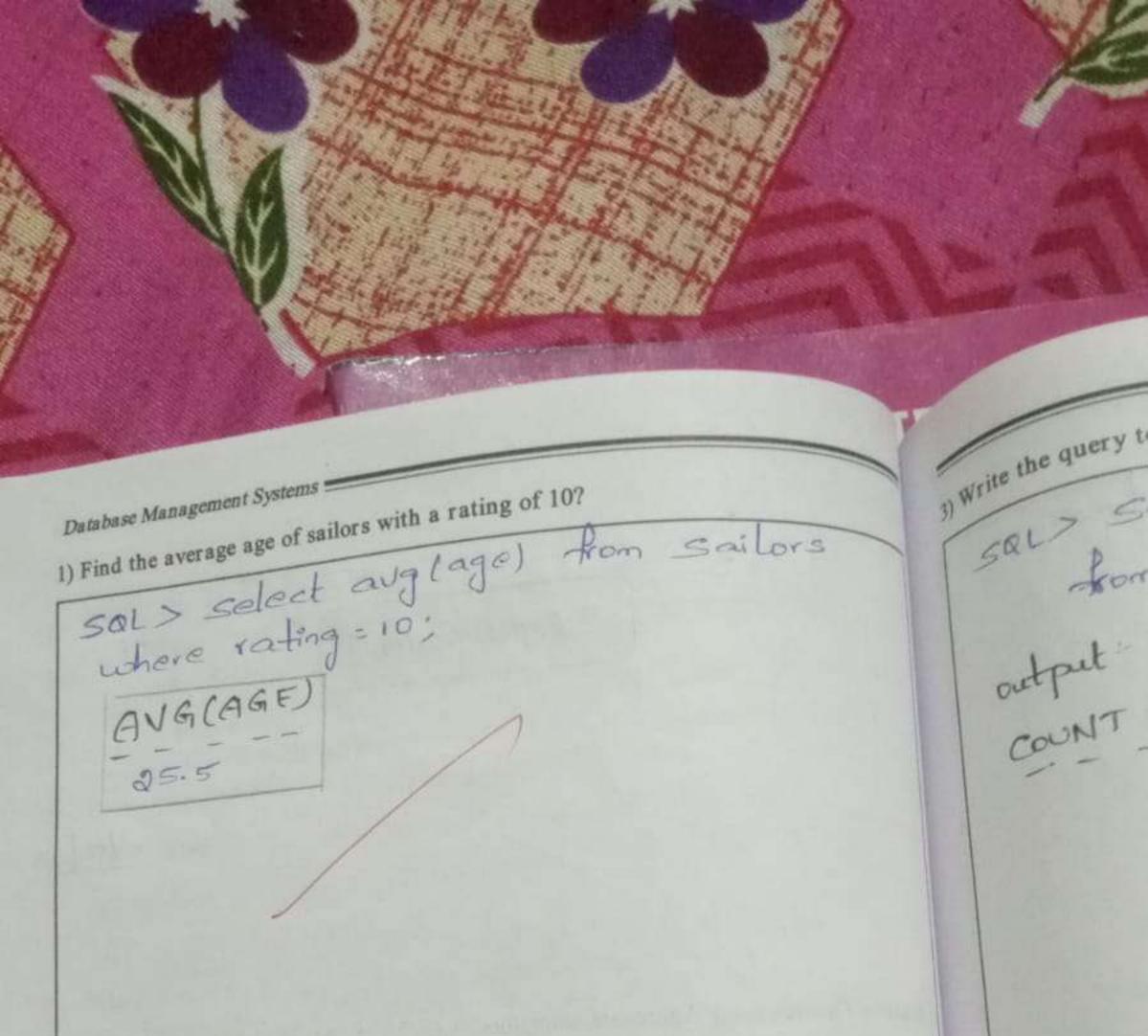
viame	Age
pamesn	25
e hilan	23
Chaitan	25
Hardik	22
Komai	24
	Name Ramesh Khilan Kaushik Chaitali Hardik Komal

There are different ty

- INNER JOIN "
- LEFT JOIN " T table.
- RIGHT JOIN table.
  - FULL JOIN
  - SELF JOIN renaming at
    - CARTESL more joine

INNER JOIN

SELECT co



2) Find the name and age of the oldest sailor? solr select sname, age from sailors where age: (select max(age) from sailors) output: SNAME Bol

4) Find the a

4) Find the age of the youngest sailor for each rating level?

SRI> select rating, min (age) from
sailors group by rating:

RATING MIN (AGE)

8
35.5

7
35.5

16
35.5

## OF TECHN

To cre

Database Management Systems

5) Find the sum of ages of sailors whose rating is above 9? SDI > select sumlage) from sailors

SUM(AGF)

6) Find the average age of sailors for each rating level that has at least two sailors? (group by and Having)

select rating, aug(age) as average from sailors group by rating having count (\*) >1;

RATING	AVE RAGE
8	40.5
7	40
3	44.5
10	\$5.5

PL/SQL code for creation of Trigger to insert data into a table got before or replace toigger! tolder to insert on sailors for each raw begin incw Sname: = upper (inew sname); end; Triggier created odate) OUTPUT insert into sailors values (22, destini); select & from sailors, SNAME

## TECHNIC

Write a P

Write a PL/SQL code for creation of trigger to UPDATE data into a table: after update of sid on sailors SQL> Create togger12

for each raw

iflinew side 80) then raise\_application\_error\_ (-20067, ant

end if;

end;

Trigger created

OUTPUT

SOL > update sailors set sid. 69 where

sname = dustin .

update sailors set/sid: 69 where sname: dustin

FRPOR at line 1

opproof Cant upokate

ORA-06512: at "SOLOMY #1738.T12; Line 4

ORA-04088 error during execution of trigge.

· SOWMYA 738. TIZ

OF TECHNOLOGY PL/SQL code for creation of trigger to delete data into a table gir oreate trigger to after delete on sailors for each row begin fiold. sid = 20 then vaise application error (-20019: you can't delek this root) end if . Trigger created solt delete from sailors where sid. 22; delete from sailors where sid: 22 08420010: you cant delete this 8000
08A-06512: at sowmy A 738, to:, Line 3 ORA-04088: Error during execution of trigger SOWMYA738. F6

## EMR INSTITUTE OF TECHNOLOGY E New Deihi & Permanently Affiliated to JNTUH, Hyderabad & Wderabad - 501 401.

Write a PL/SQ

from a table

SOL>

Database Management Systems

Write a PL/SQL code for creation of procedure to view some specified columns from a

/公司/母/司司/母/

table:

SOL > Create or replace procedure P. sail (sid) U\_ Sname char(9); V-age number; select sname, age into U\_same, U\_age Legin from sailors 19 where sideside dbms-output-put-line ('sname: 'Ilv\_sname); dbms-output put-line l'age: 111- age); end; Procedure Created

OUTPUT

SOL > set senterautput SQL > execute P-sail(2) sname: dustin age: 45 Procedure successfully completed.

PLSQL code for modification of procedure to view some specified columns create or replace procedure P. Saili rom a (gid! in sailors sid 1. type . V. Sname in sailors. Sname 1. type, V. snam sailors. age 1. type, V. age in 100 update set sname = V. Sname, age = 1 V-age where sid: sid!; Commit; end: Procedure created

Experiment-11 · Cursors SRL > set serveroutput on SOL > declare end emp. 15. emp-no 1. type 1. ename empls emphane 1. type; dept emp15 emp\_dept 1. type sal empls emp-sal 1. type: cursor al is select emp-no, emphano emp-dept, emp-sal from emplo begin open cl; fetch a into eid, ename, dept, sal, exit when a 1.1 not-found allons - output. put - line (eid)1" "11 enamell' 'lldaptll' 'llsal); endloop; close di end: output: dustin CSE 20000 23 Luber csd 40000 procedure successfully completed.

pL/SQL program that uses cursor operation on any data base.

SQL > declare V Sname Sailors sname; type: Lab Record V-age sailors age 1. type; Cursor Ca is select sname, age from spilors, begin open Ca; Loop fetch Ca into V\_cname, V-age; Post when (2 1. 8000 Count >3; albms - output . put . line (v\_ snamell' !! U-age); end loop; close C2; and.