

Academy Of Technology, Adisaptagram CSE		
DBMS LAB(CS691)	LAB ASSIGNMENT	Doc No.: AOT/CSE/691
		Page 3 of 11

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Assignment-3

Create table **dept** with the following attributes:

Column name	Data type(size)	Constraints
dept_id	number(3)	primary key
dept_name	varchar2(15)	-----

Insert 4 depts with names and id's 90, 69, 100 and 110.

Create table **cust_100** with the following attributes:

Column name	Data type(size)	Constraints
emp_id	number(3)	Primary key
first_name	varchar2(10)	Initial letter capital
last_name	varchar2(10)	Initial letter capital and not null
e_mail	varchar2(20)	All upper case
ph_no	varchar2(15)	-----
hire_date	Date	Should be > than 01-jan-1980
job_id	varchar2(10)	Must begin with FI or AD or IT
salary	number(8,2)	≥ 4000 & ≤ 25000
mgr_id	number(3)	-----
dept_id	number(3)	Foreign key, refer table dept

1. Add 10 records to cust_100
2. Drop column mrg_id
3. Add column mgr_id and make it self referenced such that first 4 id's correspond to first emp_id, next 4 correspond to fifth emp_id and the last 2 correspond to the ninth emp_id.

Assignment-4

1. Oracle table DUAL
2. Types of functions
3. Numeric Functions
(ABS,POWER,ROUND,SQRT,EXP,GREATEST,LEAST,MOD,TRUNC,FLOOR,CEIL)
4. String Functions
(LOWER,UPPER,SUBSTR,INSTR,LPAD,RPAD,TRIM,LTRIM,RTRIM,LENGTH,INITCAP,SOUNDEX)
5. Conversion Functions
(TO_CHAR, TO_NUMBER,TO_DATE)
6. Date Functions
(SYSDATE, SYSTIMESTAMP, ADD_MONTHS, LAST_DAY, MONTHS_BETWEEN, NEXT_DAY, ROUND)

Create the following tables with the data types and constraints

sailor:

Attribute	Datatype	Constraints
SID	varchar2(4)	primary key and start with small s
SNAME	varchar2(15)	initial letter capital
MNAME	varchar2(15)	

Academy Of Technology, Adisaptagram

CSE

DBMS LAB(CS691)	LAB ASSIGNMENT	Doc No.: AOT/CSE/691
		Page 4 of 11

SURNAME	varchar2(15)	not null
RATING	number(2)	default zero
AGE	number(3,1)	not null

Attribute	Datatype	Constraints
BID	number(3)	primary key & start with small b
BNAME	varchar2(10)	all upper case
COLOR	varchar2(6)	red,green,blue

Attribute	Datatype	Constraints
SID	varchar2(4)	Foreign key referencing sailor
BID	number(3)	Foreign key referencing boat
DAY	date	<1-JAN-2000
SID,BID		composite primary key

SID	SNAME	MNAME	SURNAME	RATING	AGE
s22	Fredrico		Roberts	7	45
s31	Lubber		Sheen	8	55.5
s32	Charlotte		Gordin	8	25.5
s58	Mary	Beth	Lyon	10	35
s64	Horatio		Powell	7	35.4
s71	Zorba		Alex	10	16
s29	Brutus		Slater	1	33.8
s95	Deep	Graceb	Davis	3	63.5
s74	Horatio		Forrest	9	35
s85	Sara	Art	Powell	3	25.5
s80	Deep	Kumar	Kumar	6	17
s87	Deep	Kumar	Jha	8	51

SID	BID	R_DAY
s22	101	10-OCT-98
s22	103	10-AUG-98
s22	102	10-OCT-98
s22	104	10-JUL-98
s31	102	11-OCT-98
s31	102	11-JUN-98
s31	104	11-DEC-98
s64	101	09-MAY-98
s64	102	09-AUG-98
s74	103	09-AUG-98
s80	102	07-JUL-98
s87	101	08-JUL-98
s87	102	12-DEC-98

Academy Of Technology, Adisaptagram

CSE

DBMS LAB(CS691)

LAB ASSIGNMENT

Doc No.: AOT/CSE/691

Page 5 of 11

BID	BNAME	COLOR
101	Interlake	blue
102	Interlake	red
103	Clipper	green
104	Marine	red

Assignment 4 PART A

For the above schema, perform the following query –

- 1) Find the names and ages of all sailors.
- 2) Show names under the heading of names_of_sailors and add 2 to age.
- 3) Select all records from sailors in ascending order by name;
- 4) Show all sailors name.
- 5) Select all distinct sailors name.
- 6) Show all distinct sailors names, ratings who have rating between 5 and 10.
- 7) Select all records from sailors in ascending order by rating and descending order by age.
- 8) Select all records from sailors whose rating>7.
- 9) Find records for sailor name Horatio and age=35.4.
- 10) Find records for sailor name Horatio or age=35.4.
- 11) Select names of sailors who have reserved boat 104.
- 12) Find sid of sailors who have reserved red boat
- 13) Select records for name beginning with 'B'.
- 14) Select records for name containing 'B'/'b'.
- 15) Select names for rating present.
- 16) Select names for rating absent.
- 17) Find color of boats reserved by Lubber.
- 18) Find a sailor name that have reserved at least one boat.
- 20) Compute the increments of rating of persons who have sailed on diff boats on the same day.
- 21) Find name of sailors whose name begins and ends with B and has at least 3 characters.
- 22) Find names of sailors whose name begins and ends with 'B' and has exactly 3 chars.
- 23) Find names of sailors who have reserved a red boat or a green boat.
- 24) Find names of sailors who have reserved a red boat but not a green boat.
- 25) Find names of sailors who have reserved boat 103.
- 26) Find names of sailors who have reserved red boat.
- 28) Find names of sailors who have not reserved red boat.
- 29) Count distinct sailor name from sailors.
- 30)a) Find all records for the rating>some sailor name where sailor name like 'Horatio'.
b) Find all records for the rating>all sailor name where sailor name like 'Horatio'.
- 32(a)Find all records for the rating<some sailor name where sailor name like 'Horatio'.
(b)Find all records for the rating<all sailor name where sailor name like 'Horatio'.
- 32) Select all records for s_name neither Lubber nor Horatio.
- 33) Find names of sailors whose rating is>10/20/30 using multirow subquery operator.
- 34) Find names of sailors whose rating is>10 & 20 & 30 using multirow subquery operator.
- 35) Find average age of sailors with rating 10.
- 36) Find the name of sailor who are older than oldest sailor of rating=10.
- 37) Find the age of youngest sailor for each rating level.
- 38) Find the name of each sailor who is eligible to vote for each rating level.
- 39) Find the age of youngest sailor who is eligible to vote for each rating level with at least two such sailors.