# SRI RAMAKRISHNA MISSION VIDYALAYA COLLEGE OF ARTS AND SCIENCE

[AUTONOMOUS]

**COIMBATORE - 641 020** 



**October – 2024** 

# DEPARTMENT OF COMPUTER SCIENCE

NAME :

**Reg. No.** : 23USC0

SEMESTER : III

COURSE : RDBMS LAB

COURSE CODE : 23USC3CP3

# SRI RAMAKRISHNA MISSION VIDYALAYA COLLEGE OF ARTS AND SCIENCE [AUTONOMOUS]

COIMBATORE - 641 020



# DEPARTMENT OF COMPUTER SCIENCE BONAFIDE CERTIFICATE

This to be certified that is	t is a bonafide record work done by  Reg.No
	d semester during October 2024 and al Examination held on
STAFF IN CHARGE	HEAD OF DEPARTMENT
INTERNAI FYAMINER	EXTERNAL EXAMINER

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#### EX NO-1 IMPLEMENTING DDL COMMANDS

#### A) Creating a table:

SQL> create table emp(empno number(4),ename varchar2(10),designation varchar2(10),salary number(8,2));

Table created.

#### B) Inserting the values into the table

SQL> insert into emp values('&empno','&ename','&designation','&salary');

Enter value for empno: 101 Enter value for ename: rajkumar Enter value for designation: manager

Enter value for salary: 500000

1 row created.

SQL>/

Enter value for empno: 102 Enter value for ename: nishanth

Enter value for designation: as.manager

Enter value for salary: 30000

1 row created.

SQL>/

Enter value for empno: 103 Enter value for ename: riswinth Enter value for designation: officer Enter value for salary: 25000

1 row created.

SQL>/

Enter value for empno: 104

Enter value for ename: seenivasan Enter value for designation: staff Enter value for salary: 15000

1 row created.

SQL>/

Enter value for empno: 105 Enter value for ename: rosan Enter value for designation: staff Enter value for salary: 20000

1 row created.

# C) To See the description of a table:

SQL> desc emp1;

Name	Null? Type
EMPNO	NUMBER(4)
ENAME	VARCHAR2(10)
DESIGNATION	VARCHAR2(10)
SALARY	NUMBER(8,2 <b>)</b>

# D) To List all details of the table "emp"

SQL> select \* from emp;

<b>EMPNO</b>	ENAME	DESIGNATION	SALARY
101	dilipkumar	manager	500000
102	nisanth	as.manager	30000
103	riswinth	officer	25000
104	seenivasan	staff	15000
105	rosan	staff	20000

### E) Copying a table (or) creating a new table using keyword "as"

SQL> create table emp1 as select \* from emp; Table created.

SQL> select \* from emp1;

EMPN	O ENAME	DESIGNATIO	N SALARY
101	dilipkumar	manager	500000
102	nisanth	as.manager	30000
103	riswinth	officer	25000
104	seenivasan	staff	15000
105	rosan	staff	20000

# F) To Change the size of the field "empno".

SQL> alter table emp modify empno number(6);

Table altered.

SQL> desc emp;

Name	Null? Type
EMPNO	NUMBER(6)
ENAME	VARCHAR2(10)
DESIGNATION	VARCHAR2(10)
SALARY	NUMBER(8,2)

# G) To add a new column "qualification" in the table "emp"

SQL> alter table emp add(qualification varchar2(10)); Table altered.

SQL> select \* from emp;

EMPN(	O ENAME	DESIGNATIO	SALARY	QUALIFICAT
 101	dilipkumar	manager	500000	
102	nisanth	as.manager	30000	
103	riswinth	officer	25000	
104	seenivasan	staff	15000	
105	rosan	staff	20000	

# H) To Drop a column from the table "emp".

SQL> alter table emp drop column salary; Table altered.

SQL> slect \* from emp;

EMPNO	D ENAME	DESIGNATIO	QUALIFICAT
	dilipkumar	•	
102	nisanth	as.manager	
103	riswinth	officer	
104	seenivasan	staff	
105	rosan	staff	

# I) To Drop a table "emp".

SQL> drop table emp;

Table dropped.

SQL> slect \* from emp;

#### EX.No. 2 IMPLEMENTING DML COMMANDS

#### **Create table:**

SQL> create table ex2(staffno number(10),staffname varchar2(10),age number(3),deptname varchar2(10)); Table created.

#### **Description of ex2 table:**

SQL> desc ex2;

Name	Null?	Type
STAFFNO		NUMBER(10)
STAFFNAME		VARCHAR2(10)
AGE		NUMBER(3)
DEPTNAME		VARCHAR2(10)

#### Add phoneno and address column to ex2 table:

SQL> alter table ex2 add(phoneno number(10),address varchar2(10));

Table altered.

#### **Insert values to ex2 table:**

SQL> insert into ex2 values(10, 'saravana', 21, 'tshirt', 9876543210, 'cbe'); 1 row created.

SQL> insert into ex2 values(11,'vignesh',22,'saries',8973595195,'mtp');

1 row created.

SQL> insert into ex2 values(12, 'saravan', 22, 'sales', 5236987410, 'cbe');

1 row created.

SQL> insert into ex2 values(13, 'rajesh', 21, 'marketing', 2514368970, 'cbe');

1 row created.

SQL> insert into ex2 values(14,'sabi',22,'marketing',995898935,'mtp');

1 row created.

#### To display ALL the records in ex2 table:

SQL> select \* from ex2;

STAFFNO	STAFFNAME	AGE	DEPTNAME	PHONENO	ADDRESS
10	saravana	21	tshirt	9876543210	cbe
11	vignesh	22	saries	8973595195	mtp
12	saravan	22	sales	5236987410	cbe
13	rajesh	21	marketing	2514368970	cbe
14	sabi	22	marketing	9958989355	mtp

#### Add salary column to ex2 table:

SQL> alter table ex2 add(salary number(5));

Table altered.

#### **Description of ex2 table:**

SQL> desc ex2;

Name	Null?	Type
STAFFNO		NUMBER(10)
STAFFNAME		VARCHAR2(10)
AGE		NUMBER(3)
DEPTNAME		VARCHAR2(10)
PHONENO		NUMBER(10)
ADDRESS		VARCHAR2(10)
SALARY		NUMBER(5)

#### **Update salary to staffno=10:**

SQL> update ex2 set salary=10000 where staffno=10;

1 row updated.

## **Update salary to staffno=14:**

SQL> update ex2 set salary=12000 where staffno=14;

1 row updated.

# Display the ex2 table:

SQL> select \* from ex2;

STAFFNO	STAFFNAME	AGE	DEPTNAME	PHONENO A	DDRESS	SALARY
10	saravana	21	tshirt	9876543210	cbe	10000
11	vignesh	22	saries	8973595195	mtp	
12	saravan	22	sales	5236987410	cbe	
13	rajesh	21	marketing	2514368970	cbe	
14	sabi	22	marketing	9958989355	mtp	12000

#### **Delete the detail whos staffno=11:**

SQL> delete from ex2 where staffno=11;

1 row deleted.

#### Display the ex2 table:

SQL> select \* from ex2;

STAFFNO	STAFFNAME	AGE	DEPTNAME	PHONENO A	DDRESS	SALARY
10	saravana	21	tshirt	9876543210	cbe	10000
12	saravan	22	sales	5236987410	cbe	
13	rajesh	21	marketing	2514368970	cbe	
14	sabi	22	marketing	9958989355	mtp	12000

#### To display PARTICULAR columns from the ex2 table:

SQL> **select** staffname, salaryy from ex2;

#### To display PARTICULAR rows (records) from the ex2 table:

SQL> **select** \* from ex2 where staffname=rajesh;

**Display the ex2 table:** SQL> select \* from ex2;

STAFFNO	STAFFNAME	DEPTNAME	PHONENO AD	DRESS	SALARY
10	saravana	tshirt	9876543210	cbe	10000
12	saravan	sales	5236987410	cbe	
13	rajesh	marketing	2514368970	cbe	
14	sabi	marketing	9958989355	mtp	12000

#### EX NO-3

#### STUDENT MARKLIST

#### **Queries:**

#### **Creating a table:**

SQL> create table studmark(sno number(2),name varchar2(20),regno varchar2(8)primary key,tamil number(2),english number(2),clanguage number(2),dbms number(2),total number(3),result varchar2(4));

Table created.

#### To see the description of the table:

SQL> desc studmark;

Name	Null? Type
SNO	NUMBER(2)
NAME	VARCHAR2(20)
REGNO	NOT NULL VARCHAR2(8)
TAMIL	NUMBER(2)
ENGLISH	NUMBER(2)
CLANGUAGE	NUMBER(2)
DBMS	NUMBER(2)
TOTAL	NUMBER(3)
RESULT	VARCHAR2(4)

#### A) To insert marklist records into the table

SQL> insert into studmark values('&sno','&name','&regno','&tamil','&english','&c

language','&dbms','&total','&result');

Enter value for sno: 01 Enter value for name: arun Enter value for regno: 17usc001

Enter value for tamil: 40 Enter value for english: 96 Enter value for clanguage: 58 Enter value for dbms: 63 Enter value for total: 257 Enter value for result: pass

1 row created.

SQL>/

Enter value for sno: 02

Enter value for name: boopathi Enter value for regno: 17usc002 Enter value for tamil: 69
Enter value for english: 89
Enter value for clanguage: 74
Enter value for dbms: 51
Enter value for total: 283
Enter value for result: pass

1 row created.

SQL>/

Enter value for sno: 03

Enter value for name: dharsan Enter value for regno: 17usc003

Enter value for tamil: 89
Enter value for english: 98
Enter value for clanguage: 78
Enter value for dbms: 96
Enter value for total: 361
Enter value for result: pass

1 row created.

SQL>/

Enter value for sno: 04

Enter value for name: dilipkumar Enter value for regno: 17usc004

Enter value for tamil: 94
Enter value for english: 89
Enter value for clanguage: 85
Enter value for dbms: 99
Enter value for total: 367
Enter value for result: pass

1 row created.

SQL>/

Enter value for sno: 05

Enter value for name: seenivasan Enter value for regno: 17usc043

Enter value for tamil: 78
Enter value for english: 91
Enter value for clanguage: 92
Enter value for dbms: 90
Enter value for total: 351
Enter value for result: pass

SQL>/

Enter value for sno: 06

Enter value for name: elavarasan Enter value for regno: 17usc006

Enter value for tamil: 56 Enter value for english: 63 Enter value for clanguage: 12

Enter value for dbms: 25 Enter value for total: 156 Enter value for result: fail

#### B) To list all the students name who passed in clanguage and dbms

SQL> select name, clanguage, dbms from studmark where clanguage>=35 and dbms>=35;

NAME	CLANGU	AGE	DBMS	
arun	58	63		
boopathi	74	51		
dharsan	78	96		
dilipkumar	85	99		
seenivasan	92	90		

#### C) To list all the name of the students who passed in English

SQL> select name, english from studmark where english>=35;

NAME	ENGLISH
arun	96
boopathi	89
dharsan	98
dilipkumar	89
seenivasan	91
elavarasan	63

#### D) To list the student details whose total mark greater than 300

SQL> select \* from studmark where total>=300;

SNO NAME	REGNO	TAMIL	ENGI	ISH CLANGUAGE	DBM	S TOTAL	RESU	
3 dharsan	17usc003	89	98	78	96	361	pass	
4 dilipkumar	17usc004	94	89	85	99	367	pass	
5 seenivasan	17usc043	78	91	92	90	351	pass	

#### EX NO-4

#### **EMPLOYEE DETAILS**

#### **Queries:**

#### To create a table:

SQL> create table employee(empno varchar2(10),ename varchar2(20),dob date,brno varchar2(15),dept varchar2(15),desig,varchar2(30),salary number(10)); Table created.

#### To see the description of a table:

#### SQL> desc employee;

Name	Null? Type
EMPNO	varchar2(10)
ENAME	VARCHAR2(20)
DOB	DATE
BRNO	VARCHAR2(15)
DEPT	VARCHAR2(15)
DESIG	VARCHAR2(30)
SALARY	NUMBER(10)

#### A) Inserting the employee records into the table

SQL> insert into employee values('&empno','&ename','&dob','&brno','&dept','&desig','&salary');

Enter value for empno: 01

Enter value for ename: guruprasad Enter value for dob: 15-feb-99 Enter value for brno: 0123 Enter value for dept: financial Enter value for desig: ceo Enter value for salary: 30000

1 row created.

SQL>/

Enter value for empno: 02
Enter value for ename: dilip
Enter value for dob: 25-feb-01
Enter value for brno: 0133
Enter value for dept: marketing
Enter value for desig: staff
Enter value for salary: 20000

1 row created.

SQL> insert into employee

values('&empno','&ename','&dob','&brno','&dept','&desig','&salary');

Enter value for empno: 03
Enter value for ename: arun
Enter value for dob: 10-aug-02
Enter value for brno: 458
Enter value for dept: financial
Enter value for desig: manager
Enter value for salary: 8000

1 row created.

SQL>/

Enter value for empno: 04

Enter value for ename: harikrishnan Enter value for dob: 07-mar-95

Enter value for brno:012 Enter value for dept: financial Enter value for desig: staff Enter value for salary: 5000

1 row created.

SQL> insert into employee values('&empno','&ename','&dob','&brno','&dept','&desi

g','&salary');

Enter value for empno: 05 Enter value for ename: satish Enter value for dob: 12-dec-05 Enter value for brno: 478

Enter value for dept: marketing Enter value for desig: staff Enter value for salary: 15000

1 row created.

#### B) Listing all the employee details

SQL> select \* from employee;

EMPN	O ENAME	DOB	BRNO	DEPT	DESIG	SALARY
01 02	guruprasad dilip	15-FEB-99 25-FEB-01 0:	 0123 133	financial marketing	ceo staff	30000 20000
03	arun	10-AUG-02	458	financial	manager	8000
04	harikrishnan	07-MAR-95	012	financial	staff	5000
05	satish	12-DEC-05	478	marketin	g staff	15000

#### C) Listing the name of the employee whose name starts with 'A'

SQL> select ename from employee where ename like 'a%';

EMPN(	O ENAME	DOB	BRNO	DEPT	DESIG	SALARY
03	arun	 10-AUG-02	458	financial	manager	8000

#### D) Listing the employee who get salary more than 10,000

SQL> select \* from employee where salary>=10000;

EMPN	O ENAME	DOB	BRNO	DEPT	DESIG	SALARY
01	guruprasad	15-FEB-99	0123	financial	ceo	30000
02	dilip	25-FEB-01 0	133	marketing	staff	20000
05	satish	12-DEC-05	478	marketing	staff	15000

#### E) Listing the name of the employees in marketing department

SQL> select ename from employee where dept='marketing';

**ENAME** 

-----

Dilip

Satish

# F) Listing the name of the employees in financial dept who get sal below than 10,000

SQL> select ename from employee where dept='financial' and salary<=10000;

ENAME

-----

arun

harikrishnan

#### G) Listing the name of the employee who joined after 2,000

SQL> select \* from employee where dob>='01-jan-00';

EMPN	NO ENAME	DOB	BRNO	DEPT	DESIG	SALARY
02	dilip	25-FEB-01 (	0133	marketing	staff	20000
03	arun	10-AUG-02	458	financial	manager	8000
05	satish	12-DEC-05	478	marketing	staff	15000

#### EXNO 5

#### **CUSTOMER DETAILS**

#### **Queries:**

SQL> create table customer(custname varchar2(20),gender varchar2(6),dob date,typ e varchar2(10),address varchar2(50), city varchar2(15),lastpurchased date); Table created.

#### SQL> desc customer;

Name	Null? Type
CLICTALANAE	\/ADCHAD2/20\
CUSTNAME	VARCHAR2(20)
GENDER	VARCHAR2(6)
DOB	DATE
TYPE	VARCHAR2(10)
ADDRESS	VARCHAR2(50)
CITY	VARCHAR2(15)
LASTPURCHASED	DATE

#### A) To insert customer records into the table

SQL> insert into customer values('&custname','&gender','&dob','&type','&address,' &city','&lastpurchased');

Enter value for custname: dilip Enter value for gender: male Enter value for dob: 25-feb-99 Enter value for type: cash

Enter value for address: 50,athipalayam

Enter value for city: coimbatore

Enter value for lastpurchased: 20-sep-18

old 1: insert into customer values('&custname','&gender','&dob','&type','&addr

ess','&city','&lastpurchased')

new 1: insert into customer values('dilip','male','25-feb-99','cash','50,athip

alayam','coimbatore','20-sep-18')

#### 1 row created.

#### SQL>/

Enter value for custname: riswinth Enter value for gender: male Enter value for dob: 10-aug-99 Enter value for type: credit

Enter value for address: 123/4,mettupalayam

Enter value for city: coimbatore

Enter value for lastpurchased: 23-sep-18

1 row created.

SQL>/

Enter value for custname: hema Enter value for gender: female Enter value for dob: 10-jan-04 Enter value for type: credit

Enter value for address: 3,nehru street

Enter value for city: karur

Enter value for lastpurchased: 10-jul-17

1 row created.

SQL>/

Enter value for custname: seenivasan

Enter value for gender: male Enter value for dob: 19-aug-99 Enter value for type: credit

Enter value for address: 10,panayampalli

Enter value for city: erode

Enter value for lastpurchased: 10-apr-18

1 row created.

SQL>/

Enter value for custname: kishore Enter value for gender: male Enter value for dob: 15-mar-98 Enter value for type: cash

Enter value for address: 15,karamadai Enter value for city: coimbatore

Enter value for lastpurchased: 12-may-18

1 row created.

SQL> select \* from customer;

CUSTNAME GENDER DOB TYPE ADDRESS CITY

**LASTPURCH** 

dilip	male	25-FEB-99	cash	50,athipalayam	coimb	oatore
20-SEP-18						
riswinth male	10-AUG-	99 credit	1/4,met	tupalayam	coimbatore	23-
SEP-18						
hema female	10-JAN-	-04 credit	3,nehru	street	coimbatore	10-
JUL-17						
seenivasan male	19-AU	G-99 credit	10,pana	yampalli	erode	10-
APR-18			.,	, ,		
kishore mal	e 15-MA	R-98 cash	15,karaı	madai	coimbatore	12-
MAY-18			·			

#### B) To List all male customers

SQL> select \* from customer where gender='male';

CUSTNAME GENDER DOB TYPE ADDRESS CITY LASTPURCH

------

dilipmale25-FEB-99 cash50,athipalayamcoimbatore20-SEP-18riswinthmale10-AUG-99 credit1/4,mettupalayamcoimbatore23-SEP-18seenivasanmale19-AUG-99 credit10,panayampallierode10-APR-18kishoremale15-MAR-98 cash15,karamadaicoimbatore12-MAY-18

#### C) To list all female customers who live in Coimbatore

SQL> select \* from customer where gender='female' and city='coimbatore'; CUSTNAME GENDER DOB TYPE ADDRESS CITY LASTPURCH

------

hema female 10-JAN-04 credit3,nehru street coimbatore 10-JUL-17

#### D) To select all customers bought things for credit

SQL> select \* from customer where type='credit';

CUSTNAME GENDER DOB TYPE **ADDRESS** CITY **LASTPURCH** riswinth male 10-AUG-99 credit 123/4,mettupalayam coimbatore 23-SEP-18 female 10-JAN-04 credit3,nehru street hema coimbatore 10-JUL-17 male 19-AUG-99 credit10,panayampalli 10-APR-18 seenivasan erode

# EX NO-6 FIBONACCI SERIES AND FACTORIAL

### **Queries:**

```
SQL> set serveroutput on
SQL> declare
 2 fact number:=1;
3 no number:=#
4 a number:=-1;
 5 b number:=1;
 6 c number;
7 i number;
8 begin
9 dbms output.put line('factorial and fibonacci');
10 dbms_output.put_line('fibonacci series');
11 for i in 1...no
12 loop
13 fact:=fact*i;
14 c:=a+b;
15 a:=b;
16 b:=c;
17 dbms_output.put_line(c);
18 end loop;
19 dbms_output.put_line('factorial='||fact);end;
20 /
```

#### **OUTPUT**

```
Enter value for num: 5
old 3: no number:=#
new 3: no number:=5;
factorial and fibonacci
fibonacci series
0
1
1
2
3
factorial=120
PL/SQL procedure successfully completed.
```

# **EX NO-7**

# **STUDENT DATABASE**

# **Queries:**

SQL> create table stud(rno varchar2(6),name varchar2(10),dob date,course varchar2(8),dept varchar2(8),sem varchar2(2),per number(3));
Table created.

### SQL> desc stud;

Name	Null? Type	
RNO	VARCHAR2(6)	
NAME	VARCHAR2(10)	
DOB	DATE	
COURSE	VARCHAR2(8)	
DEPT	VARCHAR2(8)	

#### A) To Insert the records into the table

SQL> insert into stud values('&ro','&name','&dob','&course','&dept','&sem','&per');

VARCHAR2(2)

NUMBER(3)

Enter value for ro: 101

Enter value for name: rishwinth Enter value for dob: 10-feb-99 Enter value for course: bsc Enter value for dept: it Enter value for sem: 3 Enter value for per: 75.3

1 row created.

### SQL>/

SEM

PER

Enter value for ro: 102
Enter value for name: dilip
Enter value for dob: 25-feb-99
Enter value for course: bsc
Enter value for dept: maths
Enter value for sem: 3
Enter value for per: 73.3

1 row created.

SQL>/

Enter value for ro: 103

Enter value for name: kishore Enter value for dob: 15-mar-98

Enter value for course: bsc Enter value for dept: physics

Enter value for sem: 4 Enter value for per: 45.3

1 row created.

SQL>/

Enter value for ro: 104

Enter value for name: seenivasan Enter value for dob: 19-aug-99 Enter value for course: bsc Enter value for dept: maths Enter value for sem: 3 Enter value for per: 98.2 1 row created.

SQL>/

JQL> /

Enter value for ro: 105

Enter value for name: nisanth Enter value for dob: 25-dec-99 Enter value for course: bsc Enter value for dept: maths Enter value for sem: 2 Enter value for per: 69.1

1 row created.

### B) To select all records

SQL> select \* from stud;

RNO	NAME DOB	COURSE DEPT	SE	PER
101	rishwinth 10-FEE	3-99 bsc it 3	75	
102	dilip 25-FEB-99	9 bsc maths 3	3 73	
103	kishore 15-MAF	R-98 bsc physic	s 4 45	
104	seenivasan 19-Al	JG-99 bsc math	hs 3 98	
105	nisanth 25-DEC	-99 bsc maths	2 69	

# C) To select rno,name,percentage per student

SQL> select rno,name,per from stud;

RNO	NAME	PER
101	rishwinth	75
102	dilip	73
103	kishore	45
104	seenivasan	98
105	nisanth	69

# D) To select details of all students with percentage>=75

SQL> select \* from stud where per>=75;

RNO	NAME	DOB	COURSE	DEPT	SE	PER
101	rishwinth	10-FEB	8-99 bsc	it	3	75
104	seenivasa	n 19-Al	JG-99 bsc	maths	3	98

## E) To select rno and name of all records stored in order by percentage

SQL> select rno, name from stud order by per;

RNO	NAME
103	kishore
105	nisanth
102	dilip
101	rishwinth
104	seenivasan

# F) To select rno and name from students in descending order

SQL> select rno, name from stud order by per desc;

RNO NAME
----104 seenivasan
101 rishwinth
102 dilip
105 nisanth
103 kishore

G) To select name of the students belonging 3<sup>rd</sup> semester and department='maths'.

SQL> Select name from stud where sem=03 and dept='maths';

NAME
---Dilip
seenivasan

H) To select all records where name is start with alphabet 'D'.

SQL> select \* from stud where name like 'd%';
RNO NAME DOB COURSE DEPT SE PER
----- 102 dilip 25-FEB-99 bsc maths 3 73

# EXNO-8 ITEM SALES

### **Queries:**

SQL> create table item(itemcode varchar2(5)primary key,name varchar2(20),sellpri ce number(4),qtyathand number(4));

Table created.

SQL> create table sales(itemcode varchar2(5)references item(itemcode),sdate date, qtysold number(5));

Table created.

SQL> desc item;

Name Null? Type

------

ITEMCODE NOT NULL VARCHAR2(5)

NAME VARCHAR2(20)
SELLPRICE NUMBER(4)
QTYATHAND NUMBER(4)

#### Insert the records into the table

SQL> insert into item values('&itemcode','&name','&sellprice','&qtyathand');

Enter value for itemcode: a01 Enter value for name: mouse Enter value for sellprice: 100 Enter value for qtyathand: 10

1 row created.

SQL>/

Enter value for itemcode: a02 Enter value for name: keyboard Enter value for sellprice: 500 Enter value for gtyathand: 5

1 row created.

SQL>/

Enter value for itemcode: a03

Enter value for name: computersystem

Enter value for sellprice: 1000 Enter value for qtyathand: 15

1 row created.

SQL>/

Enter value for itemcode: a04 Enter value for name: gamepad Enter value for sellprice: 350 Enter value for qtyathand: 15

1 row created.

SQL>/

Enter value for itemcode: a05 Enter value for name: printer Enter value for sellprice: 1200 Enter value for qtyathand: 30

1 row created.

### SQL> desc sales;

Name Null? Type

ITEMCODE VARCHAR2(5)

SDATE DATE

QTYSOLD NUMBER(5)

# SQL> select \* from item;

ITEMC NAME		SELLPRICE		QTYATHAND	
	a01	mouse		100	10
	a02	keyboard		500	5
	a03	computer system		1000	15
	a04	gamepad		350	15
	a05	printer	1200	30	

SQL> insert into sales values('&itemcode','&sdate','&qtysold');

Enter value for itemcode: a01 Enter value for sdate: 10-mar-18

Enter value for qtysold: 2

1 row created.

SQL>/

Enter value for itemcode: a02 Enter value for sdate: 30-jun-18

Enter value for qtysold: 3

1 row created.

SQL>/

Enter value for itemcode: a03
Enter value for sdate: 28-sep-17
Entervalue for strends 8

Enter value for qtysold: 8

1 row created.

SQL>/

Enter value for itemcode: a04 Enter value for sdate: 03-oct-18

Enter value for qtysold: 9

1 row created.

SQL>/

Enter value for itemcode: a05 Enter value for sdate: 13-nov-17 Enter value for gtysold: 20

1 row created.

## Select all records

SQL> select \* from item;

ITEMC NAME		SEL	SELLPRICE QTYATHAND		
a01	mouse	10	00	10	
a02	keyboard	5	00	5	
a03	system	1000	15		
a04	gamepad	3	350	15	
a05	printer	120	0	30	

SQL> select \* from sales;

ITEN	1C SDATE	QTYSOLD
a01	10-MAR-18	2
a02	30-JUN-18	3
a03	28-SEP-17	8
a04	03-OCT-18	9
a05	13-NOV-17	20

# A)Change the name of the item from 'system' to 'computer system'.

SQL> update item set name='computersystem' where sellprice=1000; 1 row updated.

SQL> select \* from item where itemcode='a03';
ITEMC NAME SELLPRICE QTYATHAND
----- a03 computersystem 1000 15

# B)delete all sales records if the name is mouse

SQL> delete from sales where itemcode=(select itemcode from item where name='mouse'); 1 row deleted.

# SQL> select \* from sales;

ITEM	1C SDATE	QTYSOLD
a02	30-JUN-18	3
a03	28-SEP-17	8
a04	03-OCT-18	9
a05	13-NOV-17	20

SQL> delete from item where itemcode=(select itemcode from item where name='mouse'); 1 row deleted.

# SQL> select \* from item;

ITEMC NAME		SELLPRICE	QTYATHAND
a02	keyboard	500	5
a03	computersystem	1000	15
a04	gamepad	350	15
a05	printer	1200	30

# C) Insert the new table attribute 'tax' to table sales.

SQL> alter table sales add tax number(3); Table altered.

SQL> desc sales;

SQL> select \* from sales; ITEMC SDATE QTYSOLD TAX ----- a02 30-JUN-18 3 a03 28-SEP-17 8 a04 03-OCT-18 9 a05 13-NOV-17 20

### D)Fill the text table with the following values 4% of selling price \*sold quantity.

SQL> update sales set tax=(select 0.04\*item.sellprice\*sales.qtysold from item where sales.itemcode=item.itemcode); 4 rows updated.

SQL> select \* from sales;

ITEN	1C SDATE	QTYSOL	D	TAX
a02	30-JUN-18	3	60	
a03	28-SEP-17	8	320	
a04	03-OCT-18	9	126	
a05	13-NOV-17	20	960	0

# E)Delete the records from the both tables if the item have not been sold past 20 days.

SQL> delete from sales where itemcode in(select itemcode from sales group by ite mcode having round(sysdate-max(sdate))>20); 3 rows deleted.

SQL> select \* from sales; ITEMC SDATE QTYSOLD TAX ----- a04 03-OCT-18 9 126

### **EX NO-9**

### **VEHICLE DETAILS**

### **Queries:**

SQL> create table vehicle (vcode number(5),vname varchar2(10),type varchar2(10),company varchar2(10),onroadprice number(8),colour varchar2(8),datepurchased date,model varchar2(5));
Table created.

#### A)Insert the vehicle records to the table

SQL> insert into vehicle values('&code','&vname','&type','&company','&roadprice','&colour','&datepurchased','&model');

Enter value for code: 1

Enter value for vname: scorpio

Enter value for type: suv

Enter value for company: mahindra Enter value for roadprice: 35000 Enter value for colour: blue

Enter value for datepurchased: 13-dec-17

Enter value for model: 2012

1 row created.

### SQL>/

Enter value for code: 2 Enter value for vname: omni Enter value for type: van

Enter value for company: maruthi Enter value for roadprice: 40000 Enter value for colour: white

Enter value for datepurchased: 17-jun-18

Enter value for model: 2009

1 row created.

#### SQL>/

Enter value for code: 3.

Enter value for vname: innova Enter value for type: luxury Enter value for company: toyota Enter value for roadprice: 100000 Enter value for colour: silver

Enter value for datepurchased: 26-may-16

Enter value for model: 2011

1 row created.

#### SQL>/

Enter value for code: 4
Enter value for vname: ciaz
Enter value for type: sedan
Enter value for company: honda
Enter value for roadprice: 50000
Enter value for colour: black

Enter value for datepurchased: 04-mar-2015

Enter value for model: 2014

1 row created.

#### SQL>/

Enter value for code: 5
Enter value for vname: ciaz
Enter value for type: sedan
Enter value for company: honda
Enter value for roadprice: 60000
Enter value for colour: black

Enter value for datepurchased: 04-apr-16

Enter value for model: 2015

1 row created.

#### SQL>/

Enter value for code: 6 Enter value for vname: car Enter value for type: sedan

Enter value for company: hyundai Enter value for roadprice: 75000 Enter value for colour: black

Enter value for datepurchased: 12-oct-2017

Enter value for model: 2013

1 row created.

#### B)List all vehicle details

SQL> select \* from vehicle;

#### CODE VNAME TYPE COMPANY ONROADPRICE COLOUR DATEPURCH MODEL

1 scorpio suv mahindra 35000 blue 13-DEC-17 2012 40000 white 17-JUN-18 2009 2 omni van maruthi 100000 silver 26-MAY-16 2011 3 innova luxury toyota 50000 black 04-MAR-15 2014 4 ciaz sedan honda 60000 black 04-APR-16 2015 5 ciaz sedan honda 6 car sedan hyundai 75000 black 12-OCT-17 2013

6 rows selected.

#### C)Create a view on vehicle table.

SQL> create view vehview as select \* from vehicle where colour='black' and type='sedan'; View created.

#### List the details of the table of vehview

SQL> select \* from vehview;

CODE VNAME TYPE COMPANY ONROADPRICE COLOUR DATEPURCH MODEL

4 ciaz sedan honda 50000 black 04-MAR-15 2014 5 ciaz 60000 black 04-APR-16 2015 sedan honda

sedan hyundai 6 car 75000 black 12-OCT-17 2013

### D)Delete the vehicles whichever purchased before the year from the view.

SQL> delete from vehview where current date- datepurchased >365; 2 rows deleted.

SQL> select \* from vehview;

CODE VNAME TYPE COMPANY ONROADPRICE COLOUR DATEPURCH MODEL -------

6 car sedan hyundai 75000 black 12-OCT-17 2013

### E) Select the records from the view having onroad price between 40,000 and 80,000

SQL> select \* from vehview where onroadprice between 40000 and 80000;

CODE VNAME TYPE COMPANY ONROADPRICE COLOUR DATEPURCH MODEL

car sedan hyundai 75000 black 12-OCT-17 2013

### F)Drop the view

SQL> drop view vehview;

View dropped.

omni van

#### G) Select all the vehicles which are white in colour.

SQL> select \* from vehicle where colour='white';

maruthi

CODE VNAME TYPE COMPANY ONROADPRICE COLOUR DATEPURCH MODEL

40000 white 17-JUN-18 2009

SQL> select \* from vehicle;

CODE VNAME TYPE COMPANY ONROADPRICE COLOUR DATEPURCH MODEL

1 mahindra 35000 blue 13-DEC-17 2012 scorpio suv 2 omni van maruthi 40000 white 17-JUN-18 2009 3 innova luxury toyota 100000 silver 26-MAY-16 2011

black 12-OCT-17 hyundai 75000 sedan 2013

SQL> select \* from vehview;

2

# EX NO-10 SUPPLIER DETAILS

### **Queries:**

SQL> create table sup(supcode varchar2(3)primary key,name varchar2(10) not null, gender char(1)check(gender in('m','M','f','F')),type varchar2(6)check(type in('credit','cash')),address varchar2(50),city varchar2(10),moblie number(10)unique);

Table created.

SQL> create table supcode(supcode varchar2(5)references sup(supcode), itemname varchar2(10)not null, price number(3), check(price between 5 and 250), delivered within number(2));

Table created.

#### SQL> desc sup;

Name	Null?	Туре
SUPCODE	NOT NULL	VARCHAR2(3)
NAME	NOT NULL	VARCHAR2(10)
GENDER		CHAR(1)
TYPE		VARCHAR2(6)
ADDRESS		VARCHAR2(50)
CITY		VARCHAR2(10)
MOBLIE		NUMBER(10)

#### A)Insert the records into the table

SQL> insert into sup values('&supcode','&name','&gender','&type','&address','&city','&mobile');

Enter value for supcode: a01 Enter value for name: dilip Enter value for gender: m Enter value for type: credit

Enter value for address: 50, athipalayam

Enter value for city: coimbatore Enter value for mobile: 8973172512

1 row created.

### SQL>/

Enter value for supcode: a02 Enter value for name: riswinth Enter value for gender: m Enter value for type: cash Enter value for address: 13/5,karamadai

Enter value for city: coimbatore Enter value for mobile: 8974568574

1 row created.

#### SQL>/

Enter value for supcode: a03 Enter value for name: kishore Enter value for gender: m Enter value for type: credit

Enter value for address: 36,gandhi nagar

Enter value for city: erode

Enter value for mobile: 7896452120

1 row created.

### SQL>/

Enter value for supcode: a04 Enter value for name: seenivasan

Enter value for gender: m Enter value for type: cash

Enter value for address: 10/7,panayampalli

Enter value for city: erode

Enter value for mobile: 7845963547

1 row created.

#### SQL>/

Enter value for supcode: a05 Enter value for name: sudha Enter value for gender: f Enter value for type: credit

Enter value for address: 45/9, anna nagar

Enter value for city: shivaganga Enter value for mobile: 9875621025

1 row created.

#### SQL>/

Enter value for supcode: a06 Enter value for name: rosan Enter value for gender: m Enter value for type: cash

Enter value for address: 9/2f,east street

Enter value for city: karur

Enter value for mobile: 5698741230

1 row created.

### SQL> desc supcode;

Name	Null?	Type

SUPCODE VARCHAR2(5)
ITEMNAME NOT NULL VARCHAR2(10)
PRICE NUMBER(3)
DELIVEREDWITHIN NUMBER(2)

SQL> insert into supcode values('&supcode','&itemname','&price','&deliveredwithin');

Enter value for supcode: a01

Enter value for itemname: ice cream

Enter value for price: 50

Enter value for delivered within: 3

1 row created.

## SQL>/

Enter value for supcode: a02 Enter value for itemname: biscuit

Enter value for price: 30

Enter value for delivered within: 4

1 row created.

### SQL>/

Enter value for supcode: a03

Enter value for itemname: chocalate

Enter value for price: 120

Enter value for delivered within: 2

1 row created.

#### SQL>/

Enter value for supcode: a04 Enter value for itemname: cake Enter value for price: 250

Enter value for delivered within: 3

1 row created.

#### SQL>/

Enter value for supcode: a05
Enter value for itemname: cookies

Enter value for price: 140

Enter value for delivered within: 2

1 row created.

### SQL>/

Enter value for supcode: a06

Enter value for itemname: biscuit

Enter value for price: 50

Enter value for deliveredwithin: 1

1 row created.

#### Select all records

SQL> select \* from sup;

SUP NAME	G TYPE	ADDRESS		CITY	MOBLIE
a01 dilip m	credit	50,athipalayam	coimbatore	ة	8973172512
a02 riswinth	m cash	13/5,karamadai	Coimbatore		8974568574
a03 kishore	m credi	t 36,gandhi nagar	erode		7896452120
a04 seenivas	san m cas	sh 10/7,panayamp	oalli erode		7845963547
a05 sudha	f credit	45/9,anna nagar	shivaganga		9875621025
a06 rosan	m cash	9/2f,east street	karur		5698741230

6 rows selected.

SQL> select \* from supcode;

				_	
-					 
ć	a01	ice cream	50	3	
á	a02	biscuit	30	4	
ć	a04	cake	250	3	
ć	a05	cookies	140	2	
ć	a06	biscuit	50	1	
ć	a03	chocalate	120	2	

SUPCO ITEMNAME PRICE DELIVEREDWITHIN

6 rows selected.

# B)List all the suppliers name and city who supply 'ice creams'.

SQL> select name,city from sup s1,supcode s2 where s1.supcode=s2.supcode and itemname='ice cream';

NAME CITY

dilip coimbatore

c)List the suppliers name who supply biscuits with in one day

SQL> select name from sup s1,supcode s2 where s1.supcode=s2.supcode and itemname

='biscuit' and deliveredwithin='1';
NAME
rosan
D)List the number of different items along with the supplier name.
SQL> select name from sup s1,supcode s2 where s1.supcode=s2.supcode;
NAME
dilip riswinth seenivasan sudha rosan kishore
6 rows selected.
E)List the female suppliers who supply for credit but do not supply 'cake' and deliveredwithin 2 days.
SQL>select name from sup s1,supcode s2 where s1.supcode=s2.supcode and type='credit' and gender='f' and itemname!='pepsi' and deliveredwithin='2';
NAME
sudha

# **EX.No. 11**

### **TRIGGER**

#### **Create Table:**

SQL> create table trigger1(rid number(6),distance number(6),fare number(10)); Table created.

# **Insert values to trigger1 Table:**

SQL> insert into trigger1 values(&rid,&distance,&fare);

Enter value for rid: 001 Enter value for distance: 10 Enter value for fare: 80

old 1: insert into trigger1 values(&rid,&distance,&fare)

new 1: insert into trigger1 values(001,10,80)

1 row created.

SQL>/

Enter value for rid: 10 Enter value for distance: 30 Enter value for fare: 100

old 1: insert into trigger1 values(&rid,&distance,&fare)

new 1: insert into trigger1 values(10,30,100)

1 row created.

# SQL > /

Enter value for rid: 11 Enter value for distance: 80

Enter value for fare: 500

old 1: insert into trigger1 values(&rid,&distance,&fare)

new 1: insert into trigger1 values(11,80,500)

1 row created.

# Display the trigger1 Table:

SQL> select \* from trigger1;

RID	DISTANCE	FARE	
1	10	80	
10	30	100	
11	80	500	

#### Create trigger:

SQL> create or replace trigger function

- 2 after insert or update or delete on trigger1 for each row
- 3 begin
- 4 dbms\_output.put\_line('modification is performed');
- 5 end;
- 6 /

Trigger created.

# **Update fare values to trigger1 Table:**

SQL> update trigger1 set fare=80 where distance=30; modification is performed 1 row updated.

# Delete data from trigger1 Table:

SQL> delete from trigger1 where rid=1; modification is performed 1 row deleted.

# **SQL>** commit;

Commit complete.

# Display the trigger1 Table:

SQL> select \* from trigger1;

RID	DISTANCE	FARE
10	30	80
11	80	500

# **Insert data from trigger1 Table:**

SQL> insert into trigger1 values(rid, distance, fare); modification is performed 1 row created.

# **SQL>** commit;

Commit complete.

# Display the trigger1 Table:

SQL> select \* from trigger1;

DISTANCE	FARE
30	80
80	500
30	25
	30 80

### EX.No. 12 EXCEPTION HANDLING

#### Create table:

SQL> create table customer(cusid number(6),name varchar(25),address varchar(25)); Table created.

#### **Insert values to customer table:**

SQL> insert into customer values('&cusid','&name','&address');

Enter value for cusid: 1

Enter value for name: vignesh Enter value for address: mtp

old 1: insert into customer values('&cusid','&name','&address')

new 1: insert into customer values('1', 'vignesh', 'mtp')

1 row created.

SQL>/

Enter value for cusid: 2 Enter value for name: manoj Enter value for address: mtp

old 1: insert into customer values('&cusid','&name','&address')

new 1: insert into customer values('2', 'manoj', 'mtp')

1 row created.

# **Display the customer table:**

SQL> select \* from customer;

CUSID	NAME	ADDRESS	
1	vignesh	mtp	
2	manoj	mtp	

### PL/SQL program to set Exception handling in customer table:

SQL> set serveroutput on

# SQL> declare

- 2 c\_id customer.cusid%type:=&c\_id;
- 3 c\_name customer.name%type;
- 4 c\_address customer.address%type;
- 5 invalid cid Exception;
- 6 begin
- 7 if c id $\leq$ =0 then
- 8 raise invalid\_cid;
- 9 else
- 10 select name,address into c\_name,c\_address from customer where cusid=c\_id;
- 11 dbms\_output.put\_line('name:'||c\_name);
- 12 dbms\_output\_line('address:'||c\_address);
- 13 end if;
- 14 Exception
- 15 when invalid cid then
- 16 dbms\_output.put\_line('id must be greater than zero');
- 17 when no\_data\_found then

```
18 dbms_output.put_line('no such customer');
19 end;
20 /
Enter value for c_id: 22
old 2: c_id customer.cusid%type:=&c_id;
new 2: c_id customer.cusid%type:=22;
no such customer
PL/SQL procedure successfully completed.
SQL > /
Enter value for c_id: 0
old 2: c_id customer.cusid%type:=&c_id;
new 2: c_id customer.cusid%type:=0;
id must be greater than zero
PL/SQL procedure successfully completed.
SQL > /
Enter value for c_id: 1
old 2: c_id customer.cusid%type:=&c_id;
new 2: c_id customer.cusid%type:=1;
name:vignesh
address:mtp
```

\*\*\*\*\*\*