

nysql> CREATE DATABASE assignment2; Query OK, 1 row affected (0.05 sec)

1. Create the following table with the given data as follows.

mysql> CREATE TABLE employe(empid int,acno int,ename varchar(40), sal int,bankname varchar(40),branch varchar(40),yearofjoin int,past exp int, address varchar(40)); Query OK, 0 rows affected (0.09 sec)

```
mysql> insert into employe values(1002,234567,'nayan',28500,'bob','udipi',2021,2,'mangalore'),(1003,345678,'alen',24500,'ubi','bangal
ore',2022,1,'manga');
Query OK, 2 rows affected (0.05 sec)
Records: 2 Duplicates: 0 Warnings: 0
```

2. Write a guery to display all the records from the table.

nysql> se ++	elect * fi	rom emplo	oye ; 	·	 	 	·	+
empid	acno	ename	sal	bankname	branch	yearofjoin	pastexp	address
1001	123456	pary	25000	sbi	mangalore	2020	3	mangalore
1002	234567	nayan	28500	bob	udipi	2021	2	mangalore
1003	345678	alen	24500	ubi	bangalore	2022	1	manga
1004	456789	mouni	36000	kmb	ujre	2020	3	nitte
1005	654321	siddu	32500	sbi	mangalore	2021	4	nitte
1006	765432	nikam	25000	kmb	mangalore	2023	0	udipi
1007	876543	komal	24000	icici	udipi	2023	2	udipi
1008	987654	john	31000	hdfc	mangalore	2024	1	ujri
1009	129038	enry	29000	boi	udipi	2020	3	ujre
1010	123890	lilli	28000	hdfc	ujre	2021	2	nitte
1011	789012	bhuvi	29000	sbi	mangalore	2023	5	udipi
++		+		·	+	+	·	++
l1 rows i	n set (0.	.04 sec)						

3. Write a query to display all the records from the table, whose branch and address both are the same.

```
mysql> select * from employe where(branch=address);
 empid
          acno
                    ename
                            sal
                                     bankname
                                                branch
                                                             yearofjoin
                                                                           pastexp
                                                                                      address
          123456
   1001
                            25000
                                                                    2020
                    pary
                                     sbi
                                                mangalore
                                                                                      mangalore
   1007
          876543
                    komal
                            24000
                                     icici
                                                udipi
                                                                    2023
                                                                                      udipi
 rows in set (0.00 sec)
```

4. Write a query to display employee acno, ename, bankname, and branch details whose salary is more than 30000.

```
mysql> select acno, ename, bankname, branch from employe where (sal>30000);
  acno
           ename
                    bankname
                                branch
  456789
           mouni
                    kmb
                                ujre
  654321
           siddu
                    sbi
                                mangalore
  987654
                    hdfc
           john
                                mangalore
3 rows in set (0.00 sec)
```

5. Write a query to display employee records who are earning less than 2500

nysql> se	elect * fi	rom emplo	ye where	e(sal<25000));			
empid	acno	ename	sal	bankname	branch	yearofjoin	pastexp	address
	345678 876543				bangalore udipi	2022 2023		manga udipi
rows ir	set (0.0	90 sec)						

6. Write a query to display the employee record of who is earning the highest salary.

7. Write a query to display the employee name who is earning less salary.

8. Write a query to the employee ename, acno, and bankname who are earning in between 25000 and 32000 (both are included).

```
nysql> select ename,acno,bankname from employe where sal>=25000 AND sal<=32000;
                  bankname
 ename
         acno
         123456
                   sbi
 pary
         234567
                   bob
 navan
          765432
 nikam
                   kmb
         987654
                   hdfc
 john
          129038
                   boi
                   hdfc
```

9. Write a query to display eid, ename, sal, acno who have an account in SBI bank.

11. Write a query to display eid, ename, sal, acno who have joined before 2023(2023 is excluded).

```
mysql> select empid,ename,sal,acno from employe where yearofjoin<2023;
  empid
          ename
                    sal
                             acno
   1001
                    25000
                             123456
           pary
   1002
                    28500
                             234567
           nayan
                    24500
                             345678
   1003
           alen
   1004
           mouni
                    36000
                             456789
   1005
           siddu
                    32500
                             654321
   1009
           enry
lilli
                    29000
                             129038
   1010
                    28000
                             123890
       in
           set (0.00
                      sec)
```

10. Write a query to display eid, ename, sal, acno who have an account in ICICI bank and from udipi branch.

12. Write a query to display eid, ename, sal, acno, bankname and branch who have an account in SBI bank and joined after 2022.

13. Write a query to display eid, ename, sal, acno, address who have joined early from mangalore.

```
mysql> select empid,ename,sal,acno from employe where branch='mangalore';
  empid
            ename
                       sal
                                 acno
   1001
1005
                       25000
32500
                                 123456
654321
765432
            pary
siddu
    1006
            nikam
                       25000
            john
bhuvi
                       31000
29000
    1008
                                  987654
    1011
                                  789012
  rows in set (0.04 sec)
```

15. Write a query to display the number of employees having the same salary and that salary from the table

Date: 12/04/2024

Assignment

- 1. Create a database "college".
- 2. Create a table 'student' with columns (id, name, date of birth, gender, branch, section, year, address) under the "college" database.
- 3. Insert 10 rows into the table.

4.Create a user with username: 'admin' and password: 'admin@123' with all the permissions like select, create, alter, drop, truncate, insert, update, and delete.

```
nysql> create user 'admin14'@'localhost' identified by 'admin12345';
Query OK, 0 rows affected (0.06 sec)
nysql> grant insert,update,delete,alter,create,drop on student to 'admin14'@'localhost';
Query OK, 0 rows affected (0.01 sec)
```

5.Create user username: 'principal' and password: 'principal@123' with

select, insert, update, and delete permissions.

```
ysql> create user 'principal14'@'localhost' identified by 'princi12345';
uery OK, 0 rows affected (0.06 sec)

ysql> grant insert,update,delete,create on student to 'pricipal14'@'localhost';
RROR 1410 (42000): You are not allowed to create a user with GRANT
ysql> grant create on student to 'pricipal14'@'localhost';
RROR 1410 (42000): You are not allowed to create a user with GRANT
ysql> grant insert,update,delete on student to 'principal14'@'localhost';
uery OK, 0 rows affected (0.05 sec)

ysql> grant select on student to 'principal14'@'localhost';
uery OK, 0 rows affected (0.05 sec)
```

6.Create user username: 'faculty' and password: 'faculty@123' with select, and update permissions.

```
mysql> create user 'faculty14'@'localhost' identified by 'faculty12345';
Query OK, 0 rows affected (0.06 sec)
mysql> grant select,update on student to 'faculty14'@'localhost';
Query OK, 0 rows affected (0.05 sec)
```

7.Create user username: 'student' without a password and with select permission only.

```
mysql> create user 'user14'@'localhost' identified by 'user12345';
Query OK, 0 rows affected (0.06 sec)
mysql> grant select on student to 'user14'@'localhost';
Query OK, 0 rows affected (0.05 sec)
```

```
nysql> show grants for user14@localhost;
Grants for user14@localhost
GRANT USAGE ON *.* TO `user14`@`localhost`
GRANT SELECT ON `college12`.`student` TO `user14`@`localhost`
college12`.ows in set (0.00 sec)
```

1. Revoke all the permissions from the user 'admin'.

```
mysql> revoke all privileges on * . * from 'admin14'@'localhost';
Query OK, 0 rows affected (0.02 sec)

mysql> revoke insert on student to 'principal14'@'localhost';
ERROR 1064 (42000): You have an error in your SQL syntax; check the
use near 'to 'principal14'@'localhost' at line 1
mysql> revoke insert on student to principal14;
ERROR 1064 (42000): You have an error in your SQL syntax; check the
use near 'to principal14' at line 1
mysql> revoke insert on student from 'principal14'@'localhost';
Query OK, 0 rows affected (0.05 sec)

mysql> revoke update on student from 'faculty14'@'localhost';
Query OK, 0 rows affected (0.05 sec)

mysql> revoke all privileges on * . * from 'user14'@'localhost';
Query OK, 0 rows affected (0.06 sec)
```

2. Revoke only insert permission from the user 'principal'.

3. Revoke update permission from the user 'faculty'.

4. Revoke all the permissions from the user 'student'.

8.Login with the 'admin' user and add a new column phone number.

 id	name 	dob	gender	branch	section	 year	address	phnumber
2	 sham	 2024-01-02	f	ec	 a	 2023	belgavi	 NULL
3	pary	2022-01-03	m	cse	Ь	2023	mangalore	NULL
4	nayan	2002-02-01	f	mec	е	2024	udupi	NULL
5	alen	2002-03-04	m	civil	Ь	2022	udupi	NULL
6	mouni	2002-02-01	m	mec	e	2021	ujre	NULL
7	komal	2001-02-04	f	eee	С	2020	bengalore	NULL
8	john	2002-05-16	m	civil	d	2019	gokak	NULL
9	nikam	2004-09-06	m	cse	a	2023	gokarn	NULL
10	lilli	2003-06-19	f	eee	c	2022	belgavi	NULL

9.Login with the 'principal' user and add 5 more new rows to the table with all column values including phone numbers.

```
C:\Users\DELL>cd C:\Program Files\MySQL\MySQL Server 8.0\bin

C:\Program Files\MySQL\MySQL Server 8.0\bin>mysql =hlocalhost -uprincipal14 -pprinci12345
mysql: Marning] Usahg a password on the command line interface can be insecure.

delcome to the MySQL monitor. Commands end with; or \g.

Server version: 8.0.36 MySQL Community Server - GPL

Copyright (c) 2000, 2024, Oracle and/or its affiliates.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql' use college12;

Database changed

State of the command in a statement values (12, 'sham', '2021-1-2', 'f', 'ec', 'a', 2023, 'belgavi'), (13, 'pary', '2022-1-3', 'm', 'cse', 'b', 2022, 'udupi'), (14, 'mouni', '2002-2-2-1', 'm', 'mec', 'e', 2021, 'ujre')

-> insert into student values(12, 'sham', '2024-1-2', 'f', 'ec', 'a', 2023, 'belgavi'), (13, 'pary', '2022-1-3', 'm', 'cse', 'b', 2021, 'ujre')

ERROR 1064 (12000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'insert into student values(12, 'sham', '2021-1-2', 'f', 'ec', 'a', '2023, 'belgavi'), (13, 'pary', '2022-1-3', 'm', 'cse', 'b', 2023, 'mangalore'), (14, 'mayan', '2002-2-1', 'm', 'mec', 'e', 2021, 'udupi'), (15, 'alen', '2023, 'belgavi'), (13, 'pary', '2022-1-3', 'm', 'cse', 'b', 2023, 'mangalore', 'e', 2021, 'udupi', (
```

ysql> s	elect *	from student						
id	name	dob	gender	branch	section	year	address	phnumber
2	sham	2024-01-02	f	ec	a	2023	belgavi	NULL
3	pary	2022-01-03	m	cse	b	2023	mangalore	NULL
4	nayan	2002-02-01	f	mec	e	2024	udupi	NULL
5	alen	2002-03-04	m	civil	l b	2022	udupi	NULL
6	mouni	2002-02-01	m	mec	e	2021	ujre	NULL
7	komal	2001-02-04	f	eee	c	2020	bengalore	NULL
8	john	2002-05-16	m	civil	d	2019	gokak	NULL
9	nikam	2004-09-06	m	cse	a	2023	gokarn	NULL
10	lilli	2003-06-19	f	eee	c	2022	belgavi	NULL
12	sham	2024-01-02	f	ec	a	2023	belgavi	67895
13	pary	2022-01-03	m	cse	b	2023	mangalore	45678
14	nayan	2002-02-01	f f	mec	e	2024	udupi	34567
15	alen	2002-03-04	m	civil	b	2022	udupi	23456
16	mouni	2002-02-01	m	mec	e	2021	ujre	12345
			+	+	+	+	+	++

10.Login with the 'faculty' user and update all the 10 students' phone numbers

```
Microsoft Windows [Version 10.0.22631.3887]
(c) Hicrosoft Corporation. All rights reserved.

C:\UservalDist.Lord C:\Program Files\Ny30\\Ny30\C.Server 8.0\Din=wysol.—Nicalhost—ufacultyiu—pfacultyi2385
sysall [Marxing] Using a passmord on the command line interface can be insecure.

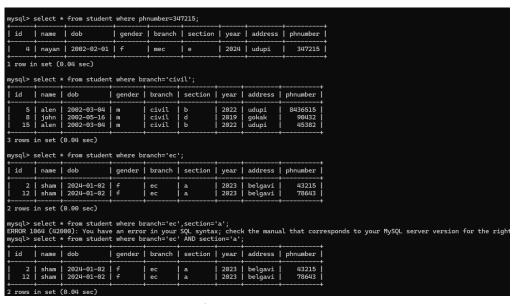
Vaur My30\c.commection id is 43

Your My30\c.com
```

b	name	dob	gender	branch	section	year	address	phnumber
2	 sham	 2024-01-02	 f	ec	a	2023	belgavi	43215
3	pary	2022-01-03	m	cse	Ь	2023	mangalore	87215
4	nayan	2002-02-01	f	mec	e	2024	udupi	347215
5	alen	2002-03-04	m	civil	Ь	2022	udupi	8436515
6	mouni	2002-02-01	m	mec	e	2021	ujre	123515
7	komal	2001-02-04	f	eee	c	2020	bengalore	67543
8	john	2002-05-16	m	civil	d	2019	gokak	90432
9	nikam	2004-09-06	m	cse	a	2023	gokarn	54322
10	lilli	2003-06-19	f	eee	c	2022	belgavi	75432
12	sham	2024-01-02	f	ec	a	2023	belgavi	78643
13	pary	2022-01-03	m	cse	Ь	2023	mangalore	198765
14	nayan	2002-02-01	f	mec	e	2024	udupi	8765435
15	alen	2002-03-04	m	civil	Ь	2022	udupi	45382
16	mouni	2002-02-01	m	mec	e	2021	ujre	45382

- 11.Login with the 'student' user and display the following outputs:
 - a. Display all the student data records.

- b. Display only one student data record with any given phone number.
- c. Display students from any one branch
- d. Display students from any specific branch and specific section.



e. Display girl students from the table.

nysql> select * from student where gender='m';

id	name	dob	gender	branch	section	year	address	phnumber
3 5 6 8 9 13 15	pary alen mouni john nikam pary alen mouni	2022-01-03 2002-03-04 2002-02-01 2002-05-16 2004-09-06 2022-01-03 2002-03-04 2002-02-01	n n n n n n	cse civil mec civil cse cse civil	b b e d a b b	2023 2022 2021 2019 2023 2023 2022 2021	mangalore udupi ujre gokak gokarn mangalore udupi ujre	87215 8436515 123515 90432 54322 198765 45382

rows in set (0.00 sec)

nysql> select * from student where gender='f';

			+	+	+		·	++
id	name	dob	gender	branch	section	year	address	phnumber
2 4 7 10 12 14	sham nayan komal lilli sham nayan	2024-01-02 2002-02-01 2001-02-04 2003-06-19 2024-01-02 2002-02-01	 f f f f f	ec mec eee eee ec mec	a e c c a e	2024 2020 2022	belgavi udupi bengalore belgavi belgavi udupi	43215 347215 67543 75432 78643 8765435
	 	·	+	+	+	+	·	++

rows in set (0.00 sec)

Date: 15/04/2024

Task

 Create a table Customer with columns cid and cname. cid should be a primary key in the table and cname should be NOT NULL.

```
mysql> create table customer(cid int PRIMARY KEY,cname varchar(2
9) NOT NULL);
Query OK, 0 rows affected (0.17 sec)
mysql> desc customer;
 Field
          Туре
                          Null |
                                 Key
                                        Default
                                                    Extra
                          NO
                                  PRI
 cid
          int
                                        NULL
 cname
          varchar(20)
                          NO
                                         NULL
 rows in set (0.05 sec)
```

2. Insert three customer data into the table.

3. Add columns age, city and phnum. Age > 20, city default value should be 'Bangalore' and phnum should be unique.

```
mysql> alter table customer add column age int check(age>20),add
column city varchar(20) default 'bengalore',add column phnum in
que;
quer,
Query OK, 3 rows affected (0.18 sec)
Records: 3 Duplicates: 0 Warnings:
mysql> desc customer;
  Field | Type
                                   Null
                                              Key
                                                       Default
                                                                         Extra
  cid
              int
                                    NO
                                   NO
YES
YES
   cname
               varchar(20)
                                                        NULL
  age
city
                                                        NULL
              int
               varchar(20)
                                                        bengalore
                                    YES
                                              UNI
               int
                                                       NULL
  rows in set (0.01 sec)
```

4. Turn on the transaction on.

```
mysql> start transaction;
Query OK, 0 rows affected (0.01 sec)
```

5. Insert another two customer data into the table without city value.

```
y'
mysql> INSERT INTO Customer (cid, cname, age, phnum) VALUES
-> (5, 'Emily Johnson', 28, '987654'),
-> (6, 'Mark Smith', 22, '1234567');
Query OK, 2 rows affected (0.04 sec)
Records: 2 Duplicates: 0 Warnings: 0
```

6. Display data from the table.

```
.
nysql> INSERT INTO Customer (cid, cname, age, phnum) VALUES
-> (5, 'Emily Johnson', 28, '987654'),
-> (6, 'Mark Smith', 22, '1234567');
Query OK, 2 rows affected (0.04 sec)
Records: 2 Duplicates: 0 Warnings: 0
mysql> select * from customer;
   cid
         | cname
                                        age
                                                     city
                                                                          phnum
                                                     bengalore
                                                                                NULL
                                                     bengalore
             sita
                                             80
             raksh
                                            80
                                                     bengalore
                                                                                NULL
            Emily Johnson
Mark Smith
                                                     bengalore
                                             28
                                                                            987654
                                             22
                                                                          1234567
                                                     bengalore
   rows in set (0.00 sec)
```

7. Create a savepoint 'ins'.

```
mysql> savepoint ins;
Query OK, 0 rows affected (0.00 sec)
```

8. Update the first age of all the customers.

```
mysql> update customer set age=80 where cid<=4;
Query OK, 0 rows affected (0.04 sec)
Rows matched: 3 Changed: 0 Warnings: 0
```

9. Display data from the table.

```
mysql> select * from customer;
  cid
                                 city
      l cname
                         age
                                              phnum
                                                 NULL
    2
                           80
                                 bengalore
        ram
    3
        sita
                           80
                                 bengalore
                                                 NULL
    Д
        raksh
                           80
                                 bengalore
                                                 NULL
                                               987654
    5
        Emily Johnson
                           28
                                 bengalore
        Mark Smith
                                              1234567
                           22
                                 bengalore
 rows in set (0.00 sec)
```

10. Create savepoint 'up1';

```
mysql> savepoint up1;
Query OK, 0 rows affected (0.00 sec)
```

11. Update all the customer's city of the first three customers.

```
nysql> update customer set city='goa' where cid<=4;
Query OK, 3 rows affected (0.00 sec)
Rows matched: 3 Changed: 3 Warnings: 0
```

12. Display data from the table.

```
ysql> select * from customer;
 cid
        cname
                           age
                                    city
                                                  phnum
                              80
                                    goa
                                                      NULL
   2
        ram
                              80
                                    goa
                                                      NULL
        sita
   4
        raksh
Emily Johnson
Mark Smith
                              80
                                                      NULL
                                    goa
                                    bengalore
                                                    987654
   5
                              28
                                                  1234567
                              22
                                    bengalore
 rows in set (0.00 sec)
```

13. Create savepoint 'up2'.

```
ysql> savepoint up2;
uery OK, 0 rows affected (0.00 sec)
```

14. Roll back to up1.

```
ysql> rollback to up1;
uery OK, 0 rows affected (0.04 sec)
```

15. Display data from the table.

```
ysql> select * from customer;
 cid |
                                city
                                             phnum
       cname
                        age
   2
       ram
                           80
                                bengalore
                                                NULL
   3
       sita
                                bengalore
                           80
                                                NULL
   4
       raksh
                           80
                                bengalore
                                                NULL
   5
       Emily Johnson
                                              987654
                           28
                                bengalore
       Mark Smith
                           22
                                bengalore
                                             1234567
 rows in set (0.00 sec)
```

16. Commit.

```
ysql> commit;
uery OK, 0 rows affected (0.05 sec)
```

17. Display data from the table.

/sql>	select * from c	ustomer;		
cid	cname	age	city	phnum
2	ram	80	bengalore	NULL
3	sita	80	bengalore	j NULL j
4	raksh	80	bengalore	j NULL j
5	Emily Johnson	28	bengalore	987654
6	Mark Smith	22	bengalore	1234567
	·			++
rows	in set (0.00 sed	=)		