```
seema kedhar
                                         250
                                                charulatha
                 | john martin | 400 | tata mcgraw hill
        ! TOC
                   | balagurusamy |
      3
                                          300 | technical
3 rows in set (0.00 sec)
mysql> SELECT * FROM book WHERE price=>300;
ERROR 1064 (42000): You have an error in your SQL syntax;
corresponds to your MySQL server version for the right sy
mysql> SELECT * FROM book WHERE price>=300;
 s_no | b_name | author
                                     | price | publisher
                                     ! 400 | tata mcgraw hill
        ! TOC ! john martin
                   | balagurusamy |
                                          300 | technical
2 rows in set (0.00 sec)
mysql> INSERT INTO book(s_no,b_name,author,price,publishe
-> VALUES(4,'new book','new author',500,'new publishe
Query OK, 1 row affected (0.07 sec)
mysql> select * from book;
                      author
                                        | price | publisher
| s_no | b_name
                    | seema kedhar | 250 | charulatha
| john martin | 400 | tata mcgraw hi
| balagurusamy | 300 | technical
| new author | 500 | new publisher
        : DBMS
        TOC
     2
                     john martin
balagurusamy
new author
      3
        | new book | new author
                                            500
                                                    new publisher
4 rows in set (0.00 sec)
mysql> ALTER TABEL book DROP COLUMNN author;
ERROR 1064 (42000): You have an error in your SQL syntax;
corresponds to your MySQL server version for the right sy
book DROP COLUMNN author' at line 1
mysql> ALTER TABLE book DROP COLUMN author;
Query OK, 4 rows affected (0.41 sec)
Records: 4 Duplicates: 0 Warnings: 0
mysql> select*from book;
 | price | publisher
        DBMS
                          250
                               : charulatha
     \bar{\mathbf{2}}
        TOC
                                 tata mcgraw hill
                          400
      3
                          300
                                 technical
                                 new publisher
        i new book i
                          500
 rows in set (0.00 sec)
```

```
mysq1> DESC stud;
                Type
                                 | Null | Key | Default | Extra
  Field
              ! int(11)
                                   YES
                                                     NULL
  s_no
  newname !
                                   YES
                varchar(50)
                                                      NULL
  subject | varchar(50)
                                   YES
                                                      NULL
  mark
              ! int(11)
                                   YES
                                                      NULL
  grade
                varchar(50)
                                                      NULL
                                    YES
5 rows in set (0.09 sec)
mysql> create table sub asselect * from stud;
ERROR 1064 (42000): You have an error in your SQL synta
corresponds to your MySQL server version for the right
ect * from stud' at line 1
mysql> CREATE TABLE sub AS SELECT * FROM stud;
Query OK, 3 rows affected (0.16 sec)
Records: 3 Duplicates: 0 Warnings: 0
mysql> select *from stud;
 s_no | newname | subject
                                                    mark | grade
                                                       75
                                                              NULL
            somu
                         08
       2
            sankar
                                                       66
                                                              NULL
                         dbms
                        | mobile computing
                                                              NULL
       3
                                                       92
            mahesh
3 rows in set (0.00 sec)
mysql> DELETE TABLE stud WHERE s_no = 2;
ERROR 1064 (42000): You have an error in your SQL synta
corresponds to your MySQL server version for the right
stud WHERE s_no = 2' at line 1
mysql> DELETE FROM stud WHERE s_no=2;
Query OK, 1 row affected (0.09 sec)
mysql> slect * from table;
ERRÔR 1064 (42000): You have an error in your SQL synta
corresponds to your MySQL server version for the right
* from table' at line 1
mysql> select * from stud;
            newname | subject
                                                    mark | grade
 s_no
                                                              NULL
            somu
                          08
                                                              NULL
                          mobile computing !
                                                       92
            mahesh
2 rows in set (0.00 sec)
```

musal> DROP TABLE stud:

```
1 2
      ramesh
                    12345 | 100000.00 |
                                       adyar
                    12346 | 152500.00 |
                                       mylapure
        sam
                           1 250000.00
    3 | harish
                    12347
                                        anna salai
 rows in set (0.00 sec)
mysq1> SELECT \star FROM bank1 WHERE acc_no=12346;
                  | acc_no | balnce
 | cust_branch
                  12346 | 152500.00 | mylapure
    2 | sam
 row in set (0.05 sec)
mysgl> SELECT \star FROM bank1 WHERE balnce>10000.00;
 s_no | cust_name | acc_no | balnce
                                      cust_branch
                  | 12345 | 100000.00 | adyar
    1 | ramesh
                  12346 | 152500.00 |
12347 | 250000.00 |
    2
                                       mylapure
        sam
    3 | harish
                                        anna salai
 rows in set (0.00 sec)
mysql> SELECT * FROM bank1 WHERE balnce BETWEEN 100000.00 (
       : cust_branch
 s_no
                    12345 | 100000.00 | adyar
    1 | ramesh
                    12346 | 152500.00 |
    2
                                       mylapure
        sam
2 rows in set (0.05 sec)
mysql> UPDATE bank1
   -> SET cust_branch='poonamallee'
   -> WHERE s_no=2;
Query OK, 1 row affected (0.07 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> select * from bank1;
 s_no | cust_name | acc_no | balnce
                                      cust_branch
                    12345 | 100000.00 | adyar
    1
      ramesh
                    12346 | 152500.00
    2
                                        poonamallee
      sam
                    12347 | 250000.00 |
    3 | harish
                                       anna salai
3 rows in set (0.00 sec)
```

mysql> \_

### mysql> SELECT\*FROM STUDENT;

REGNO	NAME	GENDER	DOB	MOBILENO	CITY
101 102 103 104	DEVAA ROGER YOSEF HARINI	F   M   M   F	2004-11-12 2004-01-22 2005-05-07 2004-11-27	98765 981235	CHENNAI TRICHY VELLORE MADURAI

4 rows in set (0.01 sec)

### mysql> DESC STUDENT;

Field	   Туре	Null	Key	Default	Extra
REGNO	int(11)	YES	! !	NULL	
NAME	varchar(15)	YES		NULL	
GENDER	char(1)	YES		NULL	
DOB	date	YES		NULL	
MOBILENO	int(11)	YES		NULL	
CITY	varchar(15)	YES	l	NULL	

6 rows in set (0.04 sec)

mysql> UPDATE STUDENT SET NAME = 'UPDATED STUDENT' WHERE REGNO = 103;

Query OK, 1 row affected (0.01 sec)

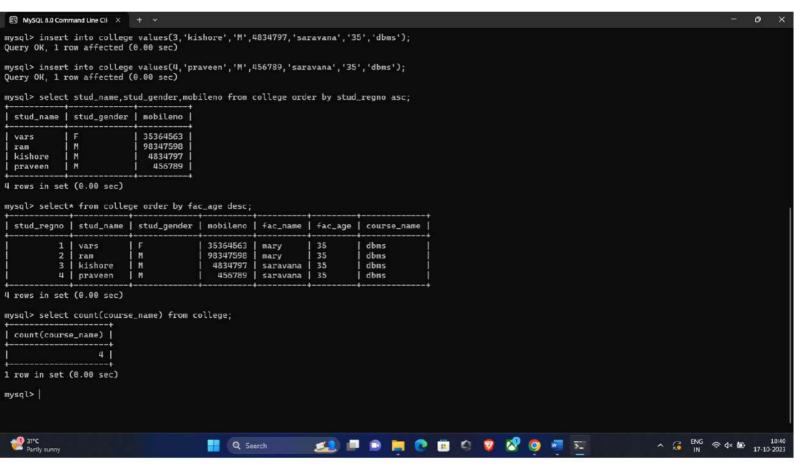
Rows matched: 1 Changed: 1 Warnings: 0

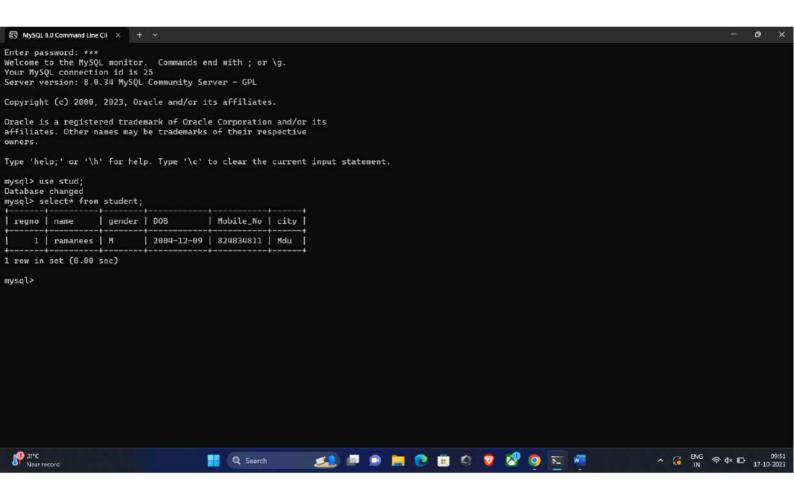
### mysql> SELECT\*FROM STUDENT;

REGNO	NAME	GENDER	DOB	MOBILENO	CITY
101	DEVAA	F	2004-11-12	12345	CHENNAI
102	ROGER	M	2004-01-22	98765	TRICHY
103	UPDATED STUDENT	M	2005-05-07	981235	VELLORE
104	HARINI	F	2004-11-27	987895	MADURAI

4 rows in set (0.00 sec)

```
\times
                               + ~
 MySQL 8.0 Command Line Cli
mysql> SAVEPOINT MY_SAVEPOINT;
Query OK, 0 rows affected (0.00 sec)
mysql> ROLLBACK TO MY_SAVEPOINT;
ERROR 1305 (42000): SAVEPOINT MY_SAVEPOINT does not exist
mvsql> ROLLBACK TO SAVEPOINT;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manua
mysql> SAVEPOINT MY_SAVEPOINT;
Query OK, 0 rows affected (0.00 sec)
mysql> CREATE TABLE CLASS(ID INT PRIMARY KEY, NAME VARCHAR (30));
Query OK, 0 rows affected (0.03 sec)
mysql> SAVEPOINT SAVEPOINT1;
Query OK, 0 rows affected (0.00 sec)
mysql> INSERT INTO CLASS VALUES(1, 'MATH'),
    -> (2,'PHYSICS'),
    -> (3,'BIOLOGY');
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0
mysql> SAVEPOINT SAVEPOINT2;
Query OK, 0 rows affected (0.00 sec)
mysql> INSERT INTO CLASS VALUES(3, 'HISTORY'),
    -> (5, 'ENGLISH');
ERROR 1062 (23000): Duplicate entry '3' for key 'PRIMARY'
mysql> INSERT INTO CLASS VALUES(4, 'HISTORY'),
    -> (5, 'ENGLISH');
Query OK, 2 rows affected (0.01 sec)
Records: 2 Duplicates: 0 Warnings: 0
mysql> SAVEPOINT SAVEPOINT3;
Query OK, 0 rows affected (0.00 sec)
mysql> ROLLBACK TO SAVEPOINT2;
ERROR 1305 (42000): SAVEPOINT SAVEPOINT2 does not exist
mysql> SELECT*FROM CLASS;
| ID | NAME
  1 MATH
   2 | PHYSICS
   3 | BIOLOGY
   4
       HISTORY
```





```
Field
                                        Key !
                                 Nu11
                Type
                                               Def au
                                               HULL
                int(11)
                                 YES
  s_no
                varchar(50)
                                 YES
                                               NULL
 newname
                varchar(50)
                                 YES
                                               NULL
 designation
                                 YES
                varchar(50)
                                               NULL
 branch
                decimal(50,0)
                                 YES
                                               NULL
 salary
 rows in set (0.09 sec)
mysgl> desc emp5;
                                 Null | Key
 Field
                Type
                                             | Defau
                                YES
                                               NULL
                int(11)
 s_no
                                               NULL
                                YES
                varchar(50)
 newname
                                 YES
                                               NULL
 designation
              | varchar(50)
                varchar(50)
                                 YES
 branch
                                               NULL
 salary
                decimal(50,0)
                                 YES
                                               HULL
 rows in set (0.05 sec)
mysql> RENAME TABLE emp5 TO employee5;
Query OK, 0 rows affected (0.27 sec)
mysql> DELETE FROM emp5 where s_no=2;
ERRÔR 1146 (42802): Table 'emp5.emp5' doesn't exist
mysql> DELETE TABLE employee5 WHERE s_no=2;
ERRÔR 1064 (42000): You have an error in your SQL :
corresponds to your MySQL server version for the r:
employee5 WHERE s_no=2' at line 1
mysql> 5;
ERRÔR 1064 (42000): You have an error in your SQL :
corresponds to your MySQL server version for the r:
line 1
mysql> DELETE FROM employee5 WHERE s_no=2;
Query OK, 1 row affected (0.09 sec)
mysql> select *from employee5;
                                  branch
                                            salary
                   designation |
  s_no
         newname
                                  channai ¦
                                               NULL
     1
         suresh
                   manager
     3
                   assistant
                                  trichy
                                               HULL
         hari
  rows in set (0.00 sec)
```

```
12345
                                100000.00 :
         ramesh
                                             adyar
                       12346
                                152500.00
                                             mylapure
         sam
     3
                       12347
                                250000.00
         harish
                                             anna salai
  rows in set (0.00 sec)
mysql> SELECT \star FROM bank1 WHERE acc_no=12346;
                              balnce
                                           | cust_branch
 s_no
       cust_name
                    acc_no
                       12346 | 152500.00 | mylapure
     2
       sam
1 row in set (0.05 sec)
mysgl> SELECT * FROM bank1 WHERE balnce>10000.00;
  s_no | cust_name | acc_no |
                                balnce
                                           | cust_branch
     1
                       12345 | 100000.00 |
                                             adyar
         ramesh
     2
                       12346
                              152500.00
         sam
                                             mylapure
     3
         harish
                       12347
                                250000.00
                                             anna salai
3 rows in set (0.00 sec)
mysgl> SELECT * FROM bank1 WHERE balnce BETWEEN 100000.00 AND 200
  s_no | cust_name | acc_no | balnce |
                                           | cust_branch
     1
                       12345 | 100000.00 | adyar
       ramesh
     2
         sam
                       12346
                             152500.00 :
                                            mylapure
2 rows in set (0.05 sec)
mysql> UPDATE bank1
    -> SET cust_branch='poonamallee'
    -> WHERE s_no=2;
Query OK, 1 row affected (0.07 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> select * from bank1;
                                balnce
                                           | cust_branch
       cust_name | acc_no
 s_no
     1
                       12345
                                100000.00 :
         ramesh
                                             adyar
     2
         sam
                       12346
                               152500.00
                                             poonamallee
     3
                                250000.00
         harish
                       12347
                                             anna salai
```

3 rows in set (0.00 sec)

mysql> \_

mysql> SELECT\*FROM FACULTY;

FACNO	FACNAME	GENDER	DOB	DOJ	MOBILENO
1111	SUJI	F	1989-01-20	2020-08-16	11111
2222	SANKAR GANESH	M	1978-05-30	2021-09-08	55555
1	SANKAR	M	1991-03-12	2000-11-14	12345
3	SUJI	F	1981-02-01	2002-09-24	98765
7	ANBU	M	1978-12-21	1997-08-04	985615

5 rows in set (0.00 sec)

mysql> ALTER TABLE FACULTY ADD RESIGNED VARCHAR(5);

Query OK, 5 rows affected (0.06 sec) Records: 5 Duplicates: 0 Warnings: 0

mysql> UPDATE FACULTY SET RESIGNED = 'YES' WHERE FACNO=7;

Query OK, 1 row affected (0.01 sec) Rows matched: 1 Changed: 1 Warnings: 0

mysql> SELECT\*FROM FACULTY;

FACNO	FACNAME	GENDER	DOB	DOJ	MOBILENO	RESIGNED
1111	   SUJI	F	1989-01-20	2020-08- <b>1</b> 6	11111	NULL
2222	SANKAR GANESH	M	1978-05-30	2021-09-08	55555	NULL
1	SANKAR	M	1991-03-12	2000-11-14	12345	NULL
3	SUJI	F	1981-02-01	2002-09-24	98765	NULL
7	ANBU	M	1978-12-21	1997-08-04	985615	YES

5 rows in set (0.00 sec)

mysql> DELETE FROM FACULTY WHERE RESIGNED = 'YES'; Query OK, 1 row affected (0.01 sec)

mysql> SELECT\*FROM FACULTY;

FACNO	FACNAME	GENDER	DOB	DOJ	MOBILENO	RESIGNED
1111	SUJI	F	1989-01-20	2020-08-16	11111	NULL
2222	SANKAR GANESH	M	1978-05-30	2021-09-08	55555	NULL
1	SANKAR	M	1991-03-12	2000-11-14	12345	NULL
3	SUJI	F	1981-02-01	2002-09-24	98765	NULL

4 rows in set (0.00 sec)

```
ysq1> CREATE TABLE emp4 AS SELECT * FROM workers;
Query OK, 3 rows affected (0.16 sec)
Records: 3 Duplicates: 0 Warnings: 0
ysq1> SELECT * FROM emp4;
 s_no
                 | designtion | branch
                                        salry
      newname
      | kannan | manager | channai |
| mahesh | supervisor | madurai |
                                        NULL
NULL
    1
    3
        maruthi | assistant | trichy |
                                           NULL
rows in set (0.00 sec)
ysql> select * from workers;
                 | designtion | branch | salry
 s_no i newname
    1 kannan manager channai NULL
2 mahesh supervisor madurai NULL
                                          NULL
    3
                              ! trichy !
        maruthi | assistant
                                           NULL
rows in set (0.00 sec)
nysql> DELETE FROM workers WHERE s_no=2;
Query OK, 1 row affected (0.08 sec)
ysql> select *from workers;
      newname
                 designtion | branch
                                        salry
s_no
                 manager | channai | NULL
        kannan
    1
    3
        maruthi
                 assistant | trichy |
                                          NULL
rows in set (0.00 sec)
ysql> DROP TABLE workers;
Query OK, 0 rows affected (0.08 sec)
ysql> select * from workers;
RROR 1146 (42802): Table 'workers.workers' doesn't e
. <1psq1
```

ERROR 1064 (42000): You have an error in your SQL syn corresponds to your MySQL server version for the righ

emp AS SELECT \* FROM workers' at line 1

```
mysql> SELECT*FROM FACULTY;
                                             DOJ
 FACNO | FACNAME
                       I GENDER I DOB
                                                          | MOBILENO
 1111
        SUJI
                                  1989-01-20 | 2020-08-16 |
 2222
                                | 1978-05-30 | 2021-09-08 |
        SANKAR GANESH | M
                                                              55555
        SANKAR
                       M
                                | 1991-03-12 | 2000-11-14 |
 1
                                                              12345
 3
                       l F
        SUJI
                                | 1981-02-01 | 2002-09-24 |
                                                              98765
        ANBU
17
                       M
                                | 1978-12-21 | 1997-08-04 |
                                                             985615
5 rows in set (0.00 sec)
```

mysql> ALTER TABLE FACULTY ADD RESIGNED VARCHAR(5); Query OK, 5 rows affected (0.06 sec) Records: 5 Duplicates: θ Warnings: θ

mysql> UPDATE FACULTY SET RESIGNED = 'YES' WHERE FACNO=7; Query OK, 1 row affected (0.01 sec) Rows matched: 1 Changed: 1 Warnings: θ

### mysql> SELECT\*FROM FACULTY;

FACNO	FACNAME	GENDER	DOB	DOJ	MOBILENO   RESIGNE
1111				2020-08-16     2021-09-08	
1 1	SANKAR		1991-03-12		12345   NULL   98765   NULL
7			1978-12-21		985615   YES

5 rows in set (0.00 sec)

mysql> DELETE FROM FACULTY WHERE RESIGNED = 'YES'; Query OK, 1 row affected (0.01 sec)

### mysql> SELECT\*FROM FACULTY;

FACNO	FACNAME	GENDER	DOB	DOJ	MOBILENO   RESIGNE
1	SANKAR GANESH SANKAR	м   м	1978-05-30   1991-03-12	2020-08-16 2021-09-08 2000-11-14 2002-09-24	55555   NULL   12345   NULL

4 rows in set (0.00 sec)

select \* from bank;

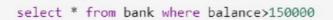
S_NO	cust_name	acc_no	balance	cus_branch
1	ramesh	12378	100000	adyar
2	sam	12367	152500	mylapore
3	harish	12345	250000	anna salai

select \* from bank where cust\_name ="ramesh"

S_NO	cust_name	acc_no	balance	cus_branch
1	ramesh	12378	100000	adyar



S_NO	cust_name	acc_no	balance	cus_branch
1	ramesh	12378	100000	adyar
2	sam	12367	152500	mylapore



S_NO	cust_name	acc_no	balance	cus_branch
2	sam	12367	152500	mylapore
3	harish	12345	250000	anna salai

update bank set cus\_branch ="poonamallee"
where s\_no=2;

#### BANK

S_NO	cust_name	acc_no	balance	cus_branch
1	ramesh	12378	100000	adyar
2	sam	12367	152500	poonamallee
3	harish	12345	250000	anna salai

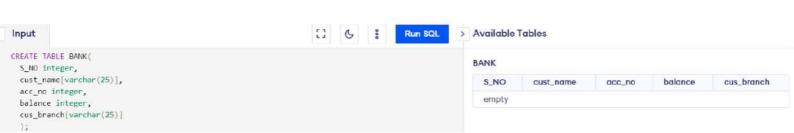
```
CREATE TABLE book(
S_NO INTEGER,
book name[varchar(25)],
author[varchar(25)],
price integer,
publisher[varchar(25)]
);

insert into book values(1,'dbms','seema kedhar',250,'charulatha');
insert into book values(2,'toc','john martin',400,'tata mcgraw hill');
insert into book values(3,'c prog','balagurusamy',300,'technical');
```

#### Book

S_NO	book	author	price	publisher
1	dbms	seema kedhar	250	charulatha
2	toc	john martin	400	tata mcgraw hill
3	c prog	balagurusamy	300	technical

#### Customers



```
insert into BANK values(1,'ramesh','12378','100000','adyar');
insert into BANK values(2,'sam','12367','152500','mylapore');
insert into BANK values(3,'harish','12345','250000','anna salai');
```

#### BANK

S_NO	cust_name	acc_no	balance	cus_branch
1	ramesh	12378	100000	adyar
2	sam	12367	152500	mylapore
3	harish	12345	250000	anna salai

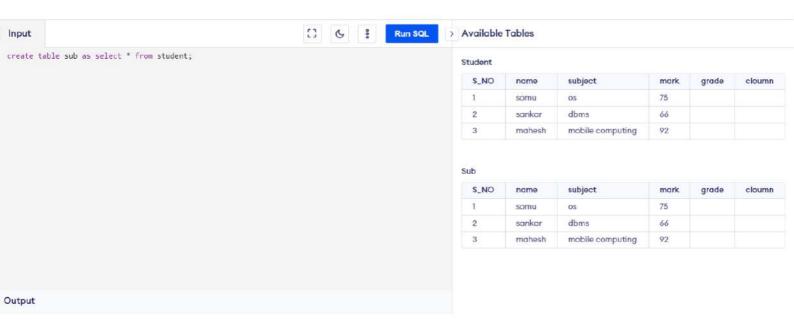
DELETE FROM EMP WHERE S\_NO=2;

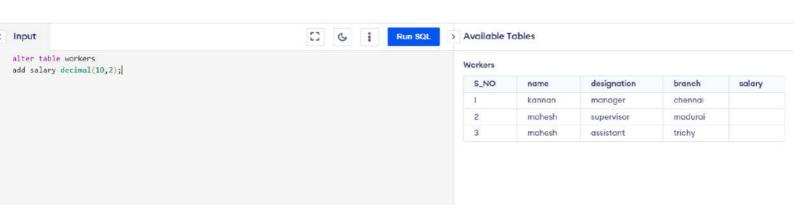
#### Customers

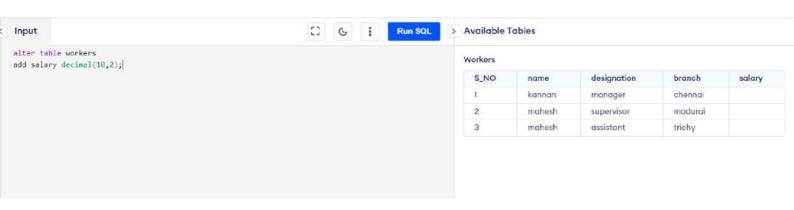
customer_id	first_name	last_name	age	country
1	John	Doe	31	USA
2	Robert	Luna	22	USA
3	David	Robinson	22	UK
4	John	Reinhardt	25	UK
5	Betty	Doe	28	UAE

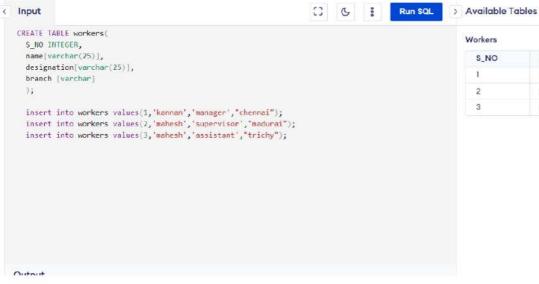
#### EMP

S_NO	NAME	DESIGNATION	ADDRESS	salary
1	suresh	manager	chennai	12000
3	hari	assistant	trichy	12000



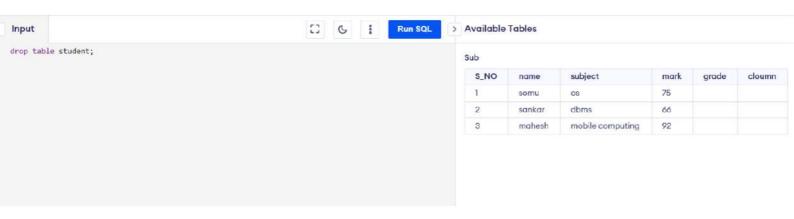


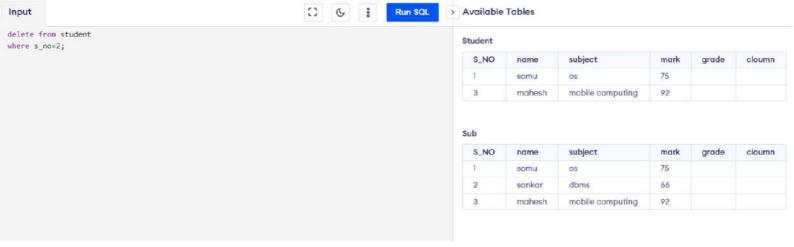


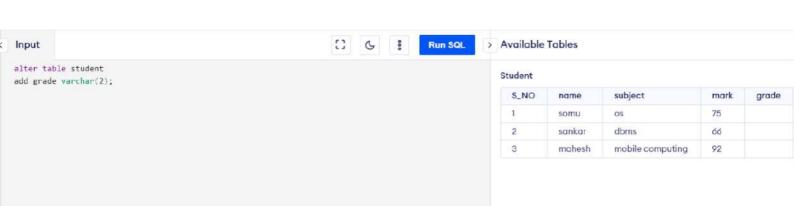


#### Workers

S_NO	name	designation	branch
1	kannan	manager	chennai
2	mahesh	supervisor	madurai
3	mahesh	assistant	trichy













select \* from book;

S_NO	book	author	price	publisher
1	dbms	seema kedhar	250	charulatha
2	toc	john martin	400	tata mcgraw hill
3	c prog	balagurusamy	300	technical

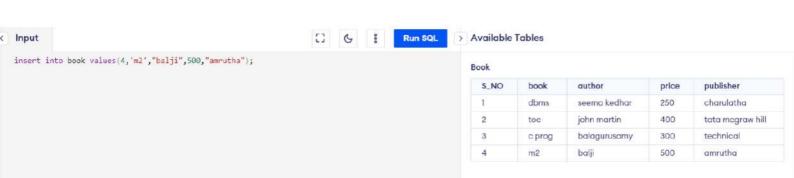




C Run SQL

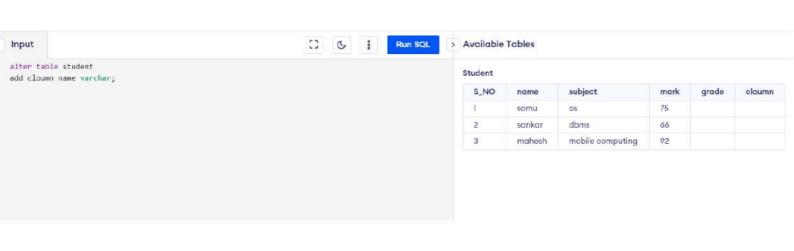
select \* from book where price >=300;

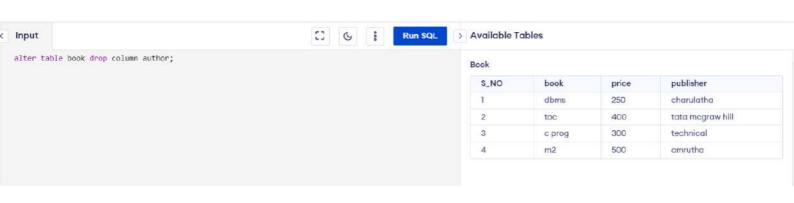
S_NO	book	author	price	publisher
2	toc	john martin	400	tata mcgraw hill
3	c prog	balagurusamy	300	technical

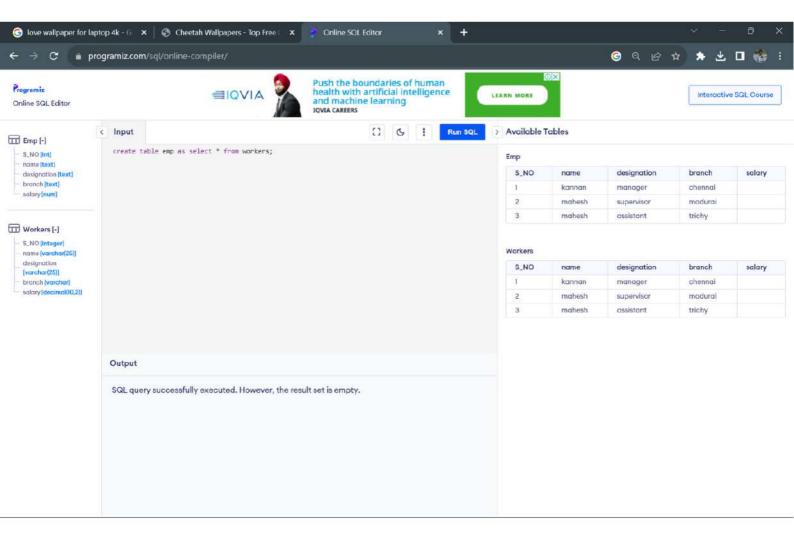


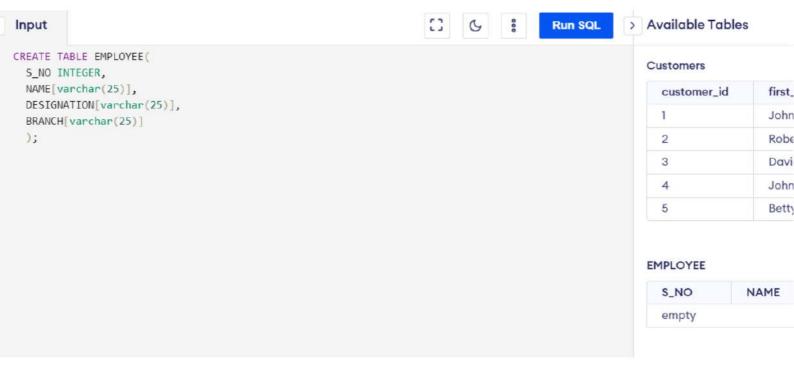


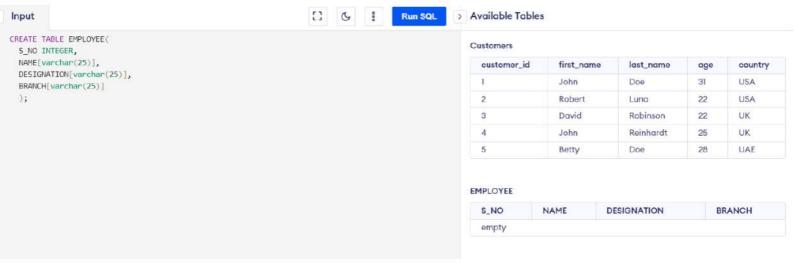
S_NO	name	subject	mark
1	somu	os	75
2	sankar	dbms	66
3	mahesh	mobile computing	92











```
insert into employee values(1,'suresh','manager','chennai');
insert into employee values(2,'ramesh','supervisor','madurai');
insert into employee values(3,'hari','assistant','trichy');
```

#### Customers

customer_id	first_name	last_name	age	country
1	John	Doe	31	USA
2	Robert	Luna	22	USA
3	David	Robinson	22	UK
4	John	Reinhardt	25	UK
5	Betty	Doe	28	UAE

#### EMPLOYEE

S_NO	NAME	DESIGNATION	BRANCH
1	suresh	manager	chennai
2	ramesh	supervisor	madurai
3	hari	assistant	trichy

alter TABLE EMPLOYEE add salary

#### Customers

customer_id	first_name	last_name	age	country
1	John	Doe	31	USA
2	Robert	Luna	22	USA
3	David	Robinson	22	UK
4	John	Reinhardt	25	UK
5	Betty	Doe	28	UAE

#### EMPLOYEE

S_NO	NAME	DESIGNATION	BRANCH	salar
1	suresh	manager	chennai	
2	ramesh	supervisor	madurai	
3	hari	assistant	trichy	

UPDATE EMPLOYEE SET salary=12000 where s\_no=3;

#### Customers

customer_id	first_name	last_name	age	country
1	John	Doe	31	USA
2	Robert	Luna	22	USA
3	David	Robinson	22	UK
4	John	Reinhardt	25	UK
5	Betty	Doe	28	UAE

#### EMPLOYEE

S_NO	NAME	DESIGNATION	BRANCH	salary
1	suresh	manager	chennai	12000
2	ramesh	supervisor	madurai	12000
3	hari	assistant	trichy	12000

alter table 'employee' rename to 'emp'

#### Customers

customer_id	first_name	last_name	age	country
1	John	Doe	31	USA
2	Robert	Luna	22	USA
3	David	Robinson	22	UK
4	John	Reinhardt	25	UK
5	Betty	Doe	28	UAE

### Emp

s_NO	NAME	DESIGNATION	BRANCH	salar
1	suresh	manager	chennai	12000
2	ramesh	supervisor	madurai	12000
3	hari	assistant	trichy	12000

A...

