SQL Queries.

Enter password: *******

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

Your MySQL connection id is 12

Server version: 8.0.17 MySQL Community Server - GPL

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

```
mysql> show databases;
+----+
| Database |
+----+
fees
| information_schema |
mysql
| performance_schema |
sys
| week1
6 rows in set (0.02 \text{ sec})
mysql> use fees;
Database changed
mysql> show tables;
+----+
| Tables_in_fees |
```

```
| fees
student
+----+
2 rows in set (0.01 sec)
mysql> desc student;
+----+----+
        | Type
Field
                 | Null | Key | Default | Extra |
+----+
          | int(10)
| Enroll No
                  NO PRINULL
| Name
         | varchar(40) | NO |
                           NULL
address
         | varchar(100) | NO |
                          NULL
        | varchar(15) | YES |
                          NULL
class
         | varchar(20) | YES |
branch
                           NULL
gender
         | varchar(10) | YES |
                           NULL
| contact no | varchar(10) | YES |
                            NULL
| academic_year | varchar(20) | YES | | NULL
| category | varchar(15) | YES |
                           NULL
+----+
9 rows in set (0.01 sec)
mysql> desc fees;;
| Field
          Type | Null | Key | Default | Extra |
+----+
           | int(10)
                   NO PRINULL
receipt_no
tution fees
           | int(10)
                   | YES |
                           NULL
| date_of_payment | date
                     | YES |
                             NULL
other fees
           | int(7)
                 | YES |
                           NULL
| mode of payment | varchar(10) | YES |
| development_fees | int(7)
                     | YES | NULL
                            | NULL
| Name
          | varchar(30) | NO |
| Enroll No
            int(10) | YES | MUL | NULL
+----+
8 rows in set (0.00 \text{ sec})
```

```
ERROR:
No query specified
mysql> desc fees;
+----+
        | Type | Null | Key | Default | Extra |
+----+
receipt no
          | int(10) | NO | PRI | NULL
| tution_fees
          | int(10)
                | YES |
                        NULL
| date of payment | date
                | YES |
                         NULL
other_fees
          | int(7)
                | YES |
                       NULL
mode_of_payment | varchar(10) | YES |
                            NULL
| development fees | int(7) | YES | | NULL
| Name
         | varchar(30) | NO | NULL
                | YES | MUL | NULL
| Enroll No
          | int(10)
+----+
8 rows in set (0.10 sec)
mysql> select * from student;
---+----+
                  address
| Enroll No | Name
                               class
                                      | branch |
gender | contact_no | academic_year | category |
---+----+
  112445 | Grace Burgess | 10, Downing Street
                                    | Fourth Year
| ECE | Female | 985644521 | 2016-17
                          | General |
  112446 | Polly Gray
                13, Downing Street
                                   | Second Year |
ECE | Female | 984412521 | 2018-19
```

234567 | Thomas Shelby | 12, Downing Street

456123 | Arthur Shelby | 12, Downing Street

| CSE | Male | 987654321 | 2018-19

| CSE | Male | 985654321 | 2018-19

ECE | Female | 984562521 | 2018-19

1134456 | Polly Gray

| General |

| General |

| General |

| General |

| 14, Downing Street

1234567 | Debjit Chattopadhyay | baksara, palpara, Howrah | Third

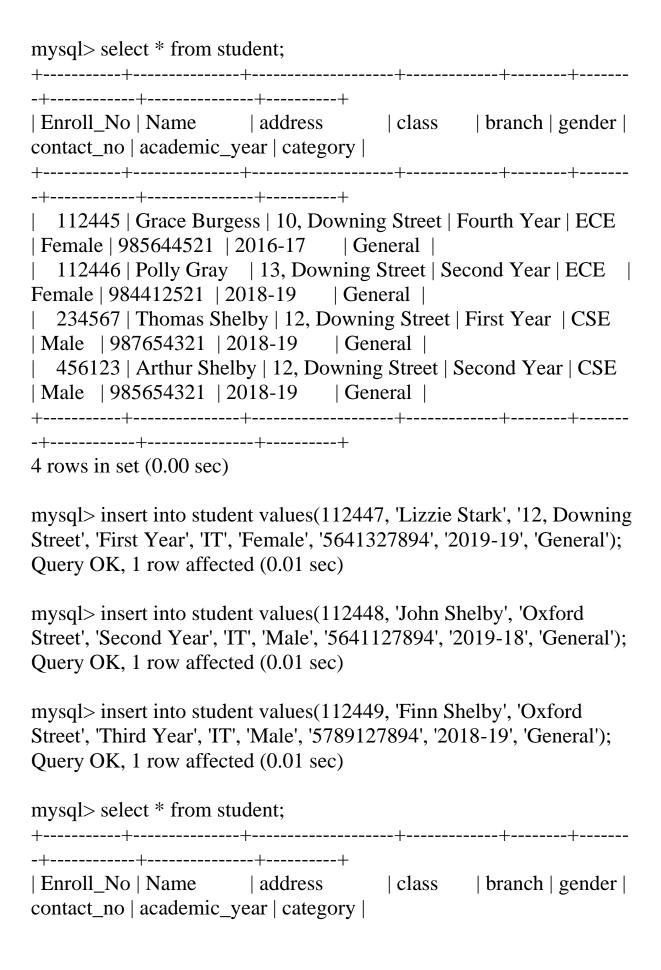
Year | CSE | male | 9064403885 | 2019-2020 | General |

| First Year

| Second Year

| Third Year |

```
---+----+
6 rows in set (0.00 sec)
mysql> delete from student where Name = 'Debjit Chattopadhyay';
Query OK, 1 row affected (0.02 sec)
mysql> select * from student;
-+-----
| Enroll_No | Name
                             | class | branch | gender |
                 address
contact_no | academic_year | category |
-+----+
  112445 | Grace Burgess | 10, Downing Street | Fourth Year | ECE
| Female | 985644521 | 2016-17 | General |
  112446 | Polly Gray | 13, Downing Street | Second Year | ECE
Female | 984412521 | 2018-19
                        | General |
  234567 | Thomas Shelby | 12, Downing Street | First Year | CSE
| Male | 987654321 | 2018-19 | General |
  456123 | Arthur Shelby | 12, Downing Street | Second Year | CSE
| Male | 985654321 | 2018-19 | General |
 1134456 | Polly Gray | 14, Downing Street | Third Year | ECE
Female | 984562521 | 2018-19 | General |
-+----+
5 rows in set (0.00 sec)
mysql> delete from student where Namee = 'Polly Gray' and class =
'Third Year';
ERROR 1054 (42S22): Unknown column 'Namee' in 'where clause'
mysql> delete from student where Name = 'Polly Gray' and class =
'Third Year':
Query OK, 1 row affected (0.01 sec)
mysql> delete from student where Name = 'Debjit Chattopadhyay';
Query OK, 0 rows affected (0.00 sec)
```



Female 985644521 2016-17 General 112446 Polly Gray 13, Downing Street Second Year ECFemale 984412521 2018-19 General 112447 Lizzie Stark 12, Downing Street First Year ITFemale 5641327894 2019-19 General 112448 John Shelby Oxford Street Second Year ITMale 5641127894 2019-18 General 112449 Finn Shelby Oxford Street Third Year ITMale 5789127894 2018-19 General 234567 Thomas Shelby 12, Downing Street First Year CMale 987654321 2018-19 General 456123 Arthur Shelby 12, Downing Street Second Year CMale 985654321 2018-19 General 456123 Arthur Shelby 12, Downing Street Second Year CMale 985654321 2018-19 General 456123 Arthur Shelby 12, Downing Street Second Year CMale 985654321 2018-19 General 456123 Arthur Shelby 12, Downing Street Second Year CMale 985654321 2018-19 General 456123 Arthur Shelby 12, Downing Street Second Year CMale 985654321 2018-19 General 456123 Arthur Shelby 12, Downing Street Second Year CMale 985654321 2018-19 General 456123 Arthur Shelby 12, Downing Street Second Year CMale 985654321 2018-19 General 456123 Arthur Shelby 12, Downing Street Second Year CMale 985654321 2018-19 General 456123 Arthur Shelby 12, Downing Street Second Year CMale 985654321 2018-19 General 456123 Arthur Shelby 12, Downing Street Second Year CMale 987654321 2018-19 General 456123 Arthur Shelby 12, Downing Street Second Year CMale 987654321 2018-19 General 456123 Arthur Shelby 12, Downing Street First Year CMale 12, Third Year Third Year Third Year Third Year Third Year Third Year Third	1	12445 Grace Burgess 10, Downing Street Fourth Year I
Female 984412521 2018-19 General 112447 Lizzie Stark 12, Downing Street First Year IT Female 5641327894 2019-19 General 112448 John Shelby Oxford Street Second Year IT Male 5641127894 2019-18 General 112449 Finn Shelby Oxford Street Third Year IT Male 5789127894 2018-19 General 234567 Thomas Shelby 12, Downing Street First Year C Male 987654321 2018-19 General 456123 Arthur Shelby 12, Downing Street Second Year C Male 985654321 2018-19 General +++++++++++++	•	·
112447 Lizzie Stark 12, Downing Street First Year IT Female 5641327894 2019-19 General 112448 John Shelby Oxford Street Second Year IT Male 5641127894 2019-18 General 112449 Finn Shelby Oxford Street Third Year IT Male 5789127894 2018-19 General 234567 Thomas Shelby 12, Downing Street First Year C Male 987654321 2018-19 General 456123 Arthur Shelby 12, Downing Street Second Year C Male 985654321 2018-19 General 4+	•	
Female 5641327894 2019-19 General 112448 John Shelby Oxford Street Second Year IT Male 5641127894 2019-18 General 112449 Finn Shelby Oxford Street Third Year IT Male 5789127894 2018-19 General 234567 Thomas Shelby 12, Downing Street First Year C Male 987654321 2018-19 General 456123 Arthur Shelby 12, Downing Street Second Year C Male 985654321 2018-19 General 456123 Arthur Shelby 12, Downing Street Second Year C Male 985654321 2018-19 General ++++++		
112448 John Shelby Oxford Street Second Year IT Male 5641127894 2019-18 General 112449 Finn Shelby Oxford Street Third Year IT Male 5789127894 2018-19 General 234567 Thomas Shelby 12, Downing Street First Year C Male 987654321 2018-19 General 456123 Arthur Shelby 12, Downing Street Second Year C Male 985654321 2018-19 General ++	•	
Male 5641127894 2019-18 General 112449 Finn Shelby Oxford Street Third Year IT Male 5789127894 2018-19 General 234567 Thomas Shelby 12, Downing Street First Year C Male 987654321 2018-19 General 456123 Arthur Shelby 12, Downing Street Second Year C Male 985654321 2018-19 General ++++++		·
112449 Finn Shelby Oxford Street Third Year IT Male 5789127894 2018-19 General 234567 Thomas Shelby 12, Downing Street First Year C Male 987654321 2018-19 General 456123 Arthur Shelby 12, Downing Street Second Year C Male 985654321 2018-19 General +++++	•	
Male 5789127894 2018-19 General 234567 Thomas Shelby 12, Downing Street First Year C Male 987654321 2018-19 General 456123 Arthur Shelby 12, Downing Street Second Year C Male 985654321 2018-19 General +++++		
234567 Thomas Shelby 12, Downing Street First Year C Male 987654321 2018-19 General 456123 Arthur Shelby 12, Downing Street Second Year C Male 985654321 2018-19 General ++	•	
Male 987654321 2018-19 General 456123 Arthur Shelby 12, Downing Street Second Year C Male 985654321 2018-19 General ++		
456123 Arthur Shelby 12, Downing Street Second Year C Male 985654321 2018-19 General ++		
Male 985654321 2018-19 General ++++	•	
+++++++		•
-++ 7 rows in set (0.00 sec) mysql> insert into student values(112450, 'Alfie Solomons', 'Oxforet', 'Third Year', 'ECE', 'Male', '5789122394', '2018-19', 'General'); query OK, 1 row affected (0.00 sec) mysql> insert into student values(112451, 'Fredie Thorne', 'Oxforet', 'Third Year', 'ECE', 'Male', '5784452394', '2018-19', 'General'); mysql> insert into student values(112452, 'Chester Campbell', '110 Oxford Street', 'Third Year', 'ME', 'Male', '5784322394', '2018-19' (General');	•	·
7 rows in set (0.00 sec) mysql> insert into student values(112450, 'Alfie Solomons', 'Oxforet', 'Third Year', 'ECE', 'Male', '5789122394', '2018-19', 'General'); Query OK, 1 row affected (0.00 sec) mysql> insert into student values(112451, 'Fredie Thorne', 'Oxforet', 'Third Year', 'ECE', 'Male', '5784452394', '2018-19', 'General'); mysql> insert into student values(112452, 'Chester Campbell', '1120xford Street', 'Third Year', 'ME', 'Male', '5784322394', '2018-19', 'General');		
mysql> insert into student values(112450, 'Alfie Solomons', 'Oxfostreet', 'Third Year', 'ECE', 'Male', '5789122394', '2018-19', 'Gene Query OK, 1 row affected (0.00 sec) mysql> insert into student values(112451, 'Fredie Thorne', 'Oxfostreet', 'Third Year', 'ECE', 'Male', '5784452394', '2018-19', 'Gene Query OK, 1 row affected (0.01 sec) mysql> insert into student values(112452, 'Chester Campbell', '11 Oxford Street', 'Third Year', 'ME', 'Male', '5784322394', '2018-19 'General');		
Street', 'Third Year', 'ECE', 'Male', '5789122394', '2018-19', 'General'); insert into student values(112451, 'Fredie Thorne', 'Oxfor Street', 'Third Year', 'ECE', 'Male', '5784452394', '2018-19', 'General'); insert into student values(112452, 'Chester Campbell', '1100xford Street', 'Third Year', 'ME', 'Male', '5784322394', '2018-19' (General');	/ 10	ws III set (0.00 sec)
Street', 'Third Year', 'ECE', 'Male', '5789122394', '2018-19', 'General'); insert into student values(112451, 'Fredie Thorne', 'Oxfor Street', 'Third Year', 'ECE', 'Male', '5784452394', '2018-19', 'General'); insert into student values(112452, 'Chester Campbell', '1100xford Street', 'Third Year', 'ME', 'Male', '5784322394', '2018-19' (General');	mvs	al> insert into student values(112450 'Alfie Solomons' 'Oxt
Query OK, 1 row affected (0.00 sec) mysql> insert into student values(112451, 'Fredie Thorne', 'Oxfor Street', 'Third Year', 'ECE', 'Male', '5784452394', '2018-19', 'Gene Query OK, 1 row affected (0.01 sec) mysql> insert into student values(112452, 'Chester Campbell', '11 Oxford Street', 'Third Year', 'ME', 'Male', '5784322394', '2018-19 'General');	•	•
mysql> insert into student values(112451, 'Fredie Thorne', 'Oxfor Street', 'Third Year', 'ECE', 'Male', '5784452394', '2018-19', 'Gene Query OK, 1 row affected (0.01 sec) mysql> insert into student values(112452, 'Chester Campbell', '11 Oxford Street', 'Third Year', 'ME', 'Male', '5784322394', '2018-19 'General');		
Street', 'Third Year', 'ECE', 'Male', '5784452394', '2018-19', 'General'); 'General', 'Third Year', 'Male', '5784452394', '2018-19', 'General');	Z	15 011, 1 10 41100004 (0.00 500)
Street', 'Third Year', 'ECE', 'Male', '5784452394', '2018-19', 'General'); 'General', 'Third Year', 'Male', '5784452394', '2018-19', 'General');	mys	gl> insert into student values(112451, 'Fredie Thorne', 'Oxfo
Query OK, 1 row affected (0.01 sec) mysql> insert into student values(112452, 'Chester Campbell', '11 Oxford Street', 'Third Year', 'ME', 'Male', '5784322394', '2018-19 'General');	•	•
Oxford Street', 'Third Year', 'ME', 'Male', '5784322394', '2018-19 'General');		
Oxford Street', 'Third Year', 'ME', 'Male', '5784322394', '2018-19 'General');		
'General');	mys	ql> insert into student values(112452, 'Chester Campbell', '1
	Oxf	ord Street', 'Third Year', 'ME', 'Male', '5784322394', '2018-19
Query OK, 1 row affected (0.01 sec)		neral');
		ry OK, 1 row affected (0.01 sec)
	'Geı	

```
| Enroll No | Name
               address
                            | class | branch | gender
| contact_no | academic_year | category |
---+----+
  112445 | Grace Burgess | 10, Downing Street | Fourth Year | ECE
| Female | 985644521 | 2016-17 | General |
  112446 | Polly Gray | 13, Downing Street | Second Year | ECE
| Female | 984412521 | 2018-19
                          | General |
  112447 | Lizzie Stark
                   | 12, Downing Street | First Year | IT
Female | 5641327894 | 2019-19
                         | General |
  112448 | John Shelby | Oxford Street
                                   | Second Year | IT
Male | 5641127894 | 2019-18
                          | General |
  112449 | Finn Shelby | Oxford Street
                                  | Third Year | IT
Male | 5789127894 | 2018-19
                         | General |
  112450 | Alfie Solomons | Oxford Street | Third Year | ECE
| Male | 5789122394 | 2018-19 | General |
  112451 | Fredie Thorne | Oxford Street
                                   | Third Year | ECE
Male | 5784452394 | 2018-19 | General |
| 112452 | Chester Campbell | 11, Oxford Street | Third Year | ME
| Male | 5784322394 | 2018-19 | General |
  234567 | Thomas Shelby | 12, Downing Street | First Year | CSE
| Male | 987654321 | 2018-19 | General |
  456123 | Arthur Shelby | 12, Downing Street | Second Year |
CSE | Male | 985654321 | 2018-19 | General |
---+----+
10 rows in set (0.00 sec)
mysql> select * from fees;
Empty set (0.01 sec)
mysql> desc fees;
+----+
          | Type | Null | Key | Default | Extra |
+----+
receipt_no | int(10) | NO | PRI | NULL |
tution fees | int(10) | YES | NULL |
```

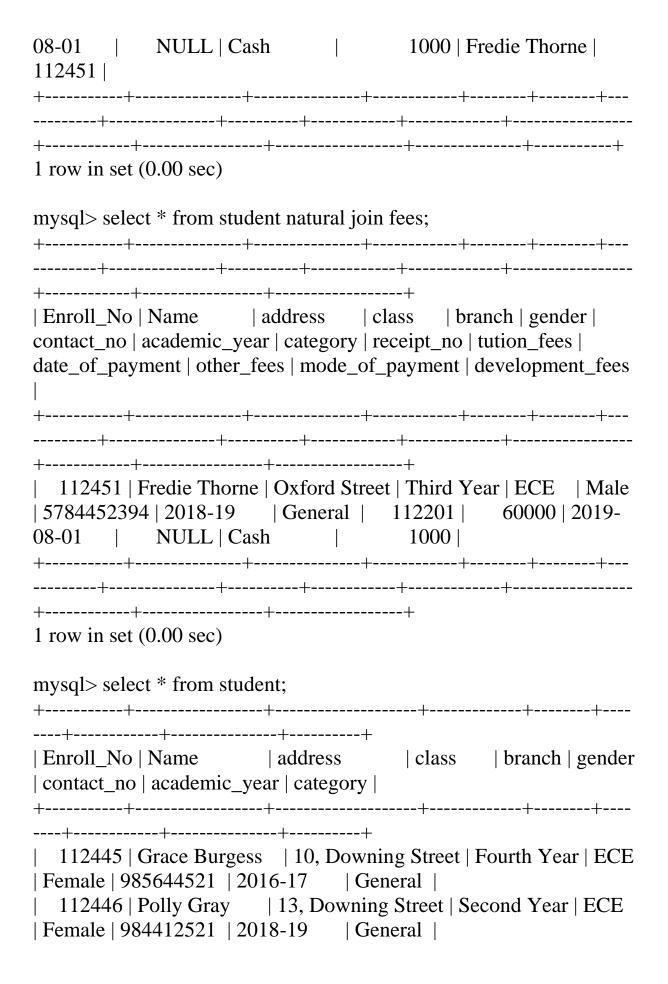
```
| date of payment | date | YES |
                           NULL
other fees
          | int(7) | YES | NULL
                              NULL
| mode_of_payment | varchar(10) | YES |
| development fees | int(7)
                    | YES |
                           NULL
| Name
          | varchar(30) | NO |
                          NULL
           | int(10) | YES | MUL | NULL
| Enroll No
+----+
8 rows in set (0.02 sec)
mysql> insert into fees values(112201, 60000, '2019-08-01', null,
'Cash', 1000, 'Fredie Thorne', 112451);
Query OK, 1 row affected (0.01 sec)
mysql> select * from student join fees;
----+
| Enroll No | Name
                  address
                             class
                                    | branch | gender
| contact_no | academic_year | category | receipt_no | tution_fees |
date_of_payment | other_fees | mode_of_payment | development_fees
         | Enroll No |
Name
______
----+
  112445 | Grace Burgess | 10, Downing Street | Fourth Year | ECE
| Female | 985644521 | 2016-17
                        | General |
                                  112201 |
                                           60000
| 2019-08-01
              NULL | Cash
                                  1000 | Fredie
Thorne | 112451 |
  112446 | Polly Gray | 13, Downing Street | Second Year | ECE
| Female | 984412521 | 2018-19
                        | General |
                                  112201
                                           60000
                                  1000 | Fredie
| 2019-08-01
              NULL | Cash
Thorne | 112451 |
  112447 | Lizzie Stark | 12, Downing Street | First Year | IT
Female | 5641327894 | 2019-19
                        | General |
                                 112201
                                          60000 |
```

```
2019-08-01 | NULL | Cash |
                                     1000 | Fredie
Thorne | 112451 |
| 112448 | John Shelby | Oxford Street | Second Year | IT
Male | 5641127894 | 2019-18 | General | 112201 |
                                               600001
               NULL | Cash
2019-08-01
                                     1000 | Fredie
           Thorne | 112451 |
| 112449 | Finn Shelby | Oxford Street | Third Year | IT
Male | 5789127894 | 2018-19 | General | 112201 |
                                               60000 |
2019-08-01
              NULL | Cash
                                     1000 | Fredie
Thorne | 112451 |
| 112450 | Alfie Solomons | Oxford Street | Third Year | ECE
| Male | 5789122394 | 2018-19 | General | 112201 |
                                               60000 |
2019-08-01
         | NULL | Cash
                                     1000 | Fredie
Thorne | 112451 |
  112451 | Fredie Thorne | Oxford Street | Third Year | ECE
Male | 5784452394 | 2018-19 | General | 112201 |
                                              60000
               NULL | Cash
                                     1000 | Fredie
2019-08-01
Thorne | 112451 |
| 112452 | Chester Campbell | 11, Oxford Street | Third Year | ME
| Male | 5784322394 | 2018-19 | General |
                                    112201
                                               60000
               NULL | Cash
2019-08-01
                                     1000 | Fredie
Thorne | 112451 |
  234567 | Thomas Shelby | 12, Downing Street | First Year | CSE
| Male | 987654321 | 2018-19 | General | 112201 |
         | NULL | Cash
                                     1000 | Fredie
2019-08-01
Thorne | 112451 |
456123 | Arthur Shelby | 12, Downing Street | Second Year |
CSE | Male | 985654321 | 2018-19 | General |
                                          112201
                     NULL | Cash
60000 | 2019-08-01
                                            1000
Fredie Thorne | 112451 |
10 rows in set (0.00 sec)
```

mysql> select * from student inner join fees;

+++++++
+++
+++++
+ Enroll_No Name
++
+
+
+
112445 Grace Burgess 10, Downing Street Fourth Year ECH
Female 985644521 2016-17 General 112201 60000
2019-08-01 NULL Cash 1000 Fredie
Thorne 112451
112446 Polly Gray 13, Downing Street Second Year ECE
Female 984412521 2018-19 General 112201 60000
2019-08-01 NULL Cash 1000 Fredie
Thorne 112451
112447 Lizzie Stark 12, Downing Street First Year IT
Female 5641327894 2019-19 General 112201 60000
2019-08-01 NULL Cash 1000 Fredie
Thorne 112451
112448 John Shelby Oxford Street Second Year IT
Male 5641127894 2019-18 General 112201 60000
2019-08-01 NULL Cash 1000 Fredie
Thorne 112451
112449 Finn Shelby Oxford Street Third Year IT
Male 5789127894 2018-19 General 112201 60000
2019-08-01 NULL Cash 1000 Fredie
Thorne 112451
112450 Alfie Solomons Oxford Street Third Year ECE
Male 5789122394 2018-19 General 112201 60000
2019-08-01 NULL Cash 1000 Fredie
Thorne 112451

```
112451 | Fredie Thorne | Oxford Street
                             | Third Year | ECE
Male | 5784452394 | 2018-19
                              112201
                    | General |
                                      60000 |
            NULL | Cash
2019-08-01
                               1000 | Fredie
Thorne | 112451 |
 112452 | Chester Campbell | 11, Oxford Street | Third Year | ME
| Male | 5784322394 | 2018-19
                      | General |
                               112201
2019-08-01
            NULL | Cash
                               1000 | Fredie
Thorne | 112451 |
 234567 | Thomas Shelby | 12, Downing Street | First Year | CSE
| Male | 987654321 | 2018-19
                     | General |
                              112201
2019-08-01
            NULL | Cash
                               1000 | Fredie
Thorne | 112451 |
 456123 | Arthur Shelby | 12, Downing Street | Second Year |
CSE | Male | 985654321 | 2018-19
                         | General |
                                   112201 |
60000 | 2019-08-01
                 NULL | Cash
                                    1000
Fredie Thorne | 112451 |
----+
10 rows in set (0.00 sec)
mysql> select * from student, fees where student.Enroll No =
fees.Enroll No;
+----+
               address
| Enroll No | Name
                       class
                              | branch | gender |
contact_no | academic_year | category | receipt_no | tution_fees |
date_of_payment | other_fees | mode_of_payment | development_fees
| Name
        | Enroll No |
+----+
 112451 | Fredie Thorne | Oxford Street | Third Year | ECE | Male
| 5784452394 | 2018-19
                | General | 112201 |
                                  60000 | 2019-
```



```
112447 | Lizzie Stark | 12, Downing Street | First Year | IT
Female | 5641327894 | 2019-19
                            | General |
                     Oxford Street
  112448 | John Shelby
                                     | Second Year | IT
Male | 5641127894 | 2019-18
                           | General |
  112449 | Finn Shelby
                    Oxford Street
                                    | Third Year | IT
Male | 5789127894 | 2018-19
                           | General |
  112450 | Alfie Solomons | Oxford Street
                                      | Third Year | ECE
| Male | 5789122394 | 2018-19 | General |
  112451 | Fredie Thorne | Oxford Street
                                     | Third Year | ECE
Male | 5784452394 | 2018-19
                          | General |
  112452 | Chester Campbell | 11, Oxford Street | Third Year | ME
| Male | 5784322394 | 2018-19
                          | General |
  234567 | Thomas Shelby | 12, Downing Street | First Year | CSE
| Male | 987654321 | 2018-19 | General |
  456123 | Arthur Shelby | 12, Downing Street | Second Year |
CSE | Male | 985654321 | 2018-19 | General |
---+----+
10 \text{ rows in set } (0.00 \text{ sec})
mysql> alter table fees add column dues int(10) after tution_fees;
Query OK, 0 rows affected, 1 warning (0.45 sec)
Records: 0 Duplicates: 0 Warnings: 1
mysql> desc fees;
+----+
          | Type | Null | Key | Default | Extra |
Field
+----+
            | int(10) | NO | PRI | NULL
receipt no
tution fees
            | int(10) | YES | NULL
           | int(10) | YES | | NULL
dues
| date of payment | date | YES | | NULL
other_fees
          | int(7) | YES | NULL
| mode_of_payment | varchar(10) | YES | | NULL
| development fees | int(7) | YES | NULL |
| Name
           | varchar(30) | NO | NULL
| Enroll No
          | int(10) | YES | MUL | NULL
```

+-----+
9 rows in set (0.00 sec)

mysql> alter table fees rename column tution_fees to tution_fees_paid int(10);

ERROR 1064 (42000): 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 'int(10)' at line 1

mysql> alter table fees rename column tution_fees tution_fees_paid int(10);

ERROR 1064 (42000): 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 'tution_fees_paid int(10)' at line 1 mysql> alter table fees change tution_fees tution_fees_paid int(10); Query OK, 0 rows affected, 1 warning (0.14 sec)

Records: 0 Duplicates: 0 Warnings: 1

mysql> desc fees; +----+ | Type | Null | Key | Default | Extra | | Field +----+ receipt no | int(10) | NO | PRI | NULL | tution_fees_paid | int(10) | YES | | int(10) | YES | NULL NULL | date of payment | date | YES | other fees | int(7) | YES | NULL | mode_of_payment | varchar(10) | YES | | NULL | development fees | int(7) | YES | NULL | varchar(30) | NO | NULL | Name | int(10) | YES | MUL | NULL | Enroll No +----+ 9 rows in set (0.00 sec)mysql> select * from fees;

-----+

```
| receipt no | tution fees paid | dues | date of payment | other fees |
mode of payment | development fees | Name | Enroll No |
-----+
                60000 | NULL | 2019-08-01
   112201
                                               NULL | Cash
       1000 | Fredie Thorne | 112451 |
+-----+----+-----+------+------
-----+
1 row in set (0.00 sec)
mysql> insert into fees values(112202, 40000, 20000, '2019-08-
01',null,'Demand Draft', 1000, 'Chester Campbell', 112452);
ERROR 1406 (22001): Data too long for column 'mode of payment'
at row 1
mysql> insert into fees values(112202, 40000, 20000, '2019-08-
01',null,'Draft', 1000, 'Chester Campbell', 112452);
Query OK, 1 row affected (0.01 sec)
mysql> insert into fees values(112203, 50000, 10000, '2019-08-
02',500,'Cash', 1000, 'Alfie Solomons', 112450);
Query OK, 1 row affected (0.01 sec)
mysql> insert into fees values(112204, 60000, null, '2019-08-
02',null,'Cash', 1000, 'Thomas Shelby', 234567);
Ouery OK, 1 row affected (0.01 sec)
mysql> insert into fees values(112205, 60000, null, '2019-08-
03',null,'Cheque', 1000, 'Arthur Shelby', 456123);
Query OK, 1 row affected (0.01 sec)
mysql> insert into fees values(112206, 30000, 30000, '2019-08-
03',null,'Cheque', 1000, 'Arthur Shelby', 456123);
Query OK, 1 row affected (0.01 sec)
mysql> delete from fees where receipt no = 112206;
Query OK, 1 row affected (0.05 sec)
```

mysql> insert into fees values(112206, 30000, 30000, '2019-08-03',null,'Cheque', 1000, 'John Shelby', 112448); Query OK, 1 row affected (0.01 sec)

```
mysql> select * from fees;
-----+
| receipt_no | tution_fees_paid | dues | date_of_payment | other_fees |
                                 | Enroll No |
mode of payment | development fees | Name
-----+
  112201 | 60000 | NULL | 2019-08-01 | NULL | Cash
      1000 | Fredie Thorne | 112451 |
  112202 |
             40000 | 20000 | 2019-08-01
                                      NULL | Draft
      1000 | Chester Campbell | 112452 |
             50000 | 10000 | 2019-08-02
  112203
                                       500 | Cash
      1000 | Alfie Solomons | 112450 |
             60000 | NULL | 2019-08-02
  112204
                                  | NULL | Cash
      1000 | Thomas Shelby | 234567 |
         60000 | NULL | 2019-08-03 |
  112205
                                       NULL |
             1000 | Arthur Shelby | 456123 |
Cheque
  112206 | 30000 | 30000 | 2019-08-03 |
                                       NULL |
               1000 | John Shelby | 112448 |
Cheque
-----+
6 \text{ rows in set } (0.00 \text{ sec})
mysql> insert into fees values(112207, 20000, 40000, '2019-08-
05',null,'Cheque', 1000, 'Finn Shelby', 112449);
Query OK, 1 row affected (0.01 sec)
mysql> insert into fees values(112208, 59000, 1000, '2019-08-
05',null,'Cash', 1000, 'Polly Gray', 112449);
Query OK, 1 row affected (0.01 sec)
mysql> insert into fees values(112209,60000,null, '2019-08-
```

05',null,'Cash', 1000, 'Grace Burgess', 112445);

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into fees values(112210,60000,null, '2019-08-10',null,'Cash', 1000, 'Lizzie Stark', 112447);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select * from fees;
----+
| receipt_no | tution_fees_paid | dues | date_of_payment | other_fees |
mode_of_payment | development_fees | Name | Enroll_No |
----+
             60000 | NULL | 2019-08-01
  112201
                                      NULL | Cash
     1000 | Fredie Thorne | 112451 |
             40000 | 20000 | 2019-08-01
                                     NULL | Draft
  112202
     1000 | Chester Campbell | 112452 |
             50000 | 10000 | 2019-08-02
                                      500 | Cash
  112203
     1000 | Alfie Solomons | 112450 |
             60000 | NULL | 2019-08-02
  112204 |
                                  NULL | Cash
     1000 | Thomas Shelby | 234567 |
             60000 | NULL | 2019-08-03
  112205
                                      NULL |
               1000 | Arthur Shelby
Cheque
                              456123
             30000 | 30000 | 2019-08-03
  112206
                                     NULL |
               1000 | John Shelby
Cheque
                                112448
  112207
            20000 | 40000 | 2019-08-05
                                     NULL |
               1000 | Finn Shelby | 112449 |
Cheque
             59000 | 1000 | 2019-08-05
  112208
                                     NULL | Cash
     1000 | Polly Gray
                   | 112449 |
             60000 | NULL | 2019-08-05
  112209
                                      NULL | Cash
      1000 | Grace Burgess | 112445 |
             60000 | NULL | 2019-08-10 |
  112210
                                      NULL | Cash
     1000 | Lizzie Stark | 112447 |
-----+
10 rows in set (0.00 sec)
```

Show Tables.

```
mysql> show databases;
+----+
| Database |
+----+
| fees
information schema
mysql
| performance_schema |
sys
| week1
+----+
6 rows in set (0.02 sec)
mysql> use fees;
Database changed
mysql> show tables;
+----+
| Tables_in_fees |
+----+
l fees
student
+----+
2 rows in set (0.01 sec)
mysql> select * from fees;
-----+
| receipt_no | tution_fees_paid | dues | date_of_payment | other_fees |
mode_of_payment | development_fees | Name | Enroll_No |
-----+
           60000 | NULL | 2019-08-01 |
  112201
                                  NULL | Cash
     1000 | Fredie Thorne | 112451 |
```

```
112202
             40000 | 20000 | 2019-08-01
                                    NULL | Draft
      1000 | Chester Campbell | 112452 |
              50000 | 10000 | 2019-08-02
                                        500 | Cash
  112203 |
      NULL | Alfie Solomons | 112450 |
              60000 | NULL | 2019-08-02
                                    NULL | Cash
  112204
      1000 | Thomas Shelby | 234567 |
              60000 | NULL | 2019-08-03
  112205
                                         NULL |
                1000 | Arthur Shelby | 456123 |
Cheque
             30000 | 30000 | 2019-08-03
  112206
                                        NULL |
                NULL | John Shelby
Cheque
                                    112448 |
              20000 | 40000 | 2019-08-05
  112207
                                        NULL |
                                   NULL | Finn Shelby
Cheque
                                | 112449|
             59000 | 1000 | 2019-08-05 |
                                       NULL | Cash
  112208
      1000 | Polly Gray | 112446 |
              60000 | NULL | 2019-08-05
                                         NULL | Cash
  112209
                                    1000 | Grace Burgess | 112445 |
              60000 | NULL | 2019-08-10
                                    | NULL | Cash
  112210 |
      NULL | Lizzie Stark | 112447 |
-----+
10 rows in set (0.00 sec)
mysql> select * from student;
---+----+
| Enroll_No | Name
               | address | class
                                      | branch | gender
| contact_no | academic_year | category |
---+-----
  112445 | Grace Burgess | 10, Downing Street | Fourth Year | ECE
| Female | 985644521 | 2016-17 | OBC
| 112446 | Polly Gray | 13, Downing Street | Second Year | ECE
| Female | 984412521 | 2018-19 | General |
  112447 | Lizzie Stark | 12, Downing Street | First Year | IT
Female | 5641327894 | 2019-19 | General |
                                 | Second Year | IT
  112448 | John Shelby | Oxford Street
Male | 5641127894 | 2019-18 | General |
```

```
112449 | Finn Shelby | Oxford Street | Third Year | IT
Male | 5789127894 | 2018-19 | General |
  112450 | Alfie Solomons | Oxford Street
                                      | Third Year | ECE
| Male | 5789122394 | 2018-19 | OBC
                                     | Third Year | ECE
  112451 | Fredie Thorne | Oxford Street
Male | 5784452394 | 2018-19 | General |
  112452 | Chester Campbell | 11, Oxford Street | Third Year | ME
| Male | 5784322394 | 2018-19
                           | SC
  234567 | Thomas Shelby | 12, Downing Street | First Year | CSE
| Male | 987654321 | 2018-19 | General |
  456123 | Arthur Shelby | 12, Downing Street | Second Year |
CSE | Male | 985654321 | 2018-19 | General |
---+----+
10 \text{ rows in set } (0.00 \text{ sec})
```

2. Describe the Tables.

```
mysql> desc student;
+----+
       | Type | Null | Key | Default | Extra |
Field
+----+
| Enroll No | int(10) | NO | PRI | NULL
        | varchar(40) | NO | NULL
Name
        | varchar(100) | NO | NULL
address
       | varchar(15) | YES | NULL |
class
       | varchar(20) | YES | NULL
branch
      | varchar(10) | YES | NULL |
gender
| contact_no | varchar(10) | YES | | NULL |
| academic year | varchar(20) | YES | | NULL
| category | varchar(15) | YES | NULL
+----+
9 rows in set (0.01 sec)
mysql> desc fees;;
+----+
        | Type | Null | Key | Default | Extra |
| Field
```

```
| int(10)
receipt no
                     | NO | PRI | NULL
tution fees
             | int(10)
                      | YES |
                               | NULL
| date of payment | date
                         | YES |
                                  | NULL
             | int(7)
other fees
                      | YES |
                             NULL
| mode of payment | varchar(10) | YES |
                                      NULL
| development fees | int(7)
                         | YES | NULL
            | varchar(30) | NO |
| Name
                                | NULL
| Enroll No
                      | YES | MUL | NULL
              | int(10)
+----+
8 \text{ rows in set } (0.00 \text{ sec})
```

3. Insert data into table.

Student:-

mysql> insert into student values(112447, 'Lizzie Stark', '12, Downing Street', 'First Year', 'IT', 'Female', '5641327894', '2019-19', 'General'); Query OK, 1 row affected (0.01 sec)

mysql> insert into student values(112448, 'John Shelby', 'Oxford Street', 'Second Year', 'IT', 'Male', '5641127894', '2019-18', 'General'); Query OK, 1 row affected (0.01 sec)

mysql> insert into student values(112449, 'Finn Shelby', 'Oxford Street', 'Third Year', 'IT', 'Male', '5789127894', '2018-19', 'General'); Query OK, 1 row affected (0.01 sec)

mysql> insert into student values(112450, 'Alfie Solomons', 'Oxford Street', 'Third Year', 'ECE', 'Male', '5789122394', '2018-19', 'General'); Query OK, 1 row affected (0.00 sec)

mysql> insert into student values(112451, 'Fredie Thorne', 'Oxford Street', 'Third Year', 'ECE', 'Male', '5784452394', '2018-19', 'General'); Query OK, 1 row affected (0.01 sec)

```
mysql> insert into student values(112452, 'Chester Campbell', '11, Oxford Street', 'Third Year', 'ME', 'Male', '5784322394', '2018-19', 'General');
```

Query OK, 1 row affected (0.01 sec)

mysql> insert into student values(112445, 'Grace Burgess', '10, Downing Street', 'Fourth Year', 'ECE, 'Female', '985644521', 2016-17', 'General');

Query OK, 1 row affected (0.01 sec)

mysql> insert into student values(112446, 'Polly Gray', '13, Downing Street', 'Second Year', 'ECE, 'Female', '984412521', 2018-19', 'General');

Query OK, 1 row affected (0.01 sec)

mysql> insert into student values(234567, 'Thomas Shelby, '12, Downing Street', 'First Year', ''CSE, 'Male', '987654321', 2018-19', 'General');

Query OK, 1 row affected (0.01 sec)

4. Delete data from table

mysql> delete from student where Name = 'Polly Gray' and class = 'Third Year';

Query OK, 1 row affected (0.01 sec)

5. Select all general category students who have paid by cash.

mysql> select Name from student natural join fees where mode_of_payment = 'Cash' and category = 'General';

```
| Thomas Shelby |
+----+
4 rows in set (0.00 sec)
```

6. Select names of students who have paid development fees.

mysql> select Name from student natural join fees where development_fees <> 'null';

7. Select students enrolment number from CSE branch who have not paid tution fees.

mysql> select Enroll_No,Name from student natural join fees where dues <> 'null';

8. Select students from different branches who have paid tution fees using the group by clause.

mysql> select name from student natural join fees where tution_fees_paid > 10000 group by branch;

9. Display the contact number of students who a have paid the development fees after 10th July.

mysql> select contact_no from student natural join fees where date of payment > '2019-07-10';

```
+-----+

| contact_no |

+-----+

| 5789122394 |

| 985654321 |

| 5641127894 |

| 984412521 |

| 985644521 |

| 5641327894 |

+------+

6 rows in set (0.01 sec)
```

10. Select all students for the academic year 2017 who paid via offline mode.

```
mysql> select Name from student natural join fees where academic_year = '2018-19' and mode_of_payment = 'Cash'; +-----+
```

11. Select address of OBC students who paid on the 15th of July.

12. Select all student names whose names begin with T or F and who have paid via online mode.

mysql> select Name from fees natural join student where name like 'T%' or name like 'F%' and mode_of_payment <> 'Cash';

13. Select all phone numbers beginning with 578 who have paid development fees on the 2nd of July.

mysql> select contact_no from fees natural join student where contact_no like '578%' and date_of_payment = '2019-07-02'; +-----+ | contact_no | +-----+ | 5784322394 | | 5789127894 | +------+ 2 rows in set (0.00 sec)

14. Select all enrolment numbers ending with 122 who have not yet paid tution fees.

mysql> select Enroll_No from student natural join fees where Enroll_No like '%5_' and tution_fees_paid < 60000;
+-----+
| Enroll_No |
+-----+
| 112450 |
| 112452 |
+-----+
2 rows in set (0.00 sec)

15. Select all receipt numbers not from ECE branch who paid fees within 15th July.

mysql> select receipt_no from fees natural join student where branch <> 'ECE' and date of payment < '2019-07-15';

```
+-----+

| receipt_no |

+-----+

| 112202 |

| 112204 |

| 112207 |

+-----+

3 rows in set (0.00 sec)
```

16. Sort all receipt numbers from CSE departments in descending order.

mysql> select receipt_no from fees natural join student where branch = 'CSE' order by receipt_no DESC;

```
+-----+

| receipt_no |

+-----+

| 112205 |

| 112204 |

+-----+

2 rows in set (0.00 sec)
```