

1.

```
MariaDB [lab3database]> CHANG WEE SIANG WILSON 2101446
-> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check
on for the right syntax to use near 'CHANG WEE SIANG WILSON 21
MariaDB [lab3database]> selecct email from student;
ERROR 1064 (42000): You have an error in your SQL syntax; check
on for the right syntax to use near 'selecct email from studen
MariaDB [lab3database]> select email from student;
+-----+
| email |
+-----+
| angjiayi1990@hotmail.com |
| anniechapman1991@yahoo.com |
| chnghuiling1992@gmail.com |
| choyyiting1992@hotmail.com |
| davidchapman1989@msn.com |
| davidhall1992@yahoo.com |
| dennisbeckham1989@msn.com |
| dennispalmer1992@yahoo.com |
| dingweixiang1990@yahoo.com |
| fengmeng1990@gmail.com |
| geduo2010@yahoo.com |
| gohhuiying1989@gmail.com |
| huangwenxin2010@msn.com |
| huangxuanti1992@msn.com |
| huangzhanpeng1992@msn.com |
| irisbrown1992@hotmail.com |
| jennyhunt1991@gmail.com |
| kenowen2011@yahoo.com |
| lisasmith2011@msn.com |
| liushaojun2010@msn.com |
| liuyihui1990@hotmail.com |
| liuzhanpeng2011@msn.com |
| liuzhencai1990@msn.com |
| neelamdeol2011@hotmail.com |
| nganhquang1991@yahoo.com |
| ngookaiting1991@yahoo.com |
| ngqiyang1989@msn.com |
| ngyanfen2010@msn.com |
| ngyongming2011@yahoo.com |
| pengjiayuan2011@hotmail.com |
| pohhuiling1992@hotmail.com |
| qinyiyang2010@hotmail.com |
| qinyuwei2011@hotmail.com |
| seahteckkee1990@gmail.com |
| siowcaokhoa1991@msn.com |
| tayweiguo1989@msn.com |
| tayyongming1989@gmail.com |
| tsohuilin1989@msn.com |
| wangna1990@yahoo.com |
| zhanghan1989@hotmail.com |
| zhanghong2011@msn.com |
| zhaoyang1989@yahoo.com |
| zhengnana1991@gmail.com |
| zhengxi1990@yahoo.com |
| zhengzhemin1991@yahoo.com |
| zhouxialin1990@yahoo.com |
| zhuchang2010@gmail.com |
+-----+
47 rows in set (0.000 sec)

MariaDB [lab3database]> _
```

2.

```
MariaDB [lab3database]> select distinct name from student;
```

name
ANG JIA YI
ANNIE CHAPMAN
CHNG HUI LING
CHOY YI TING
DAVID CHAPMAN
DAVID HALL
DENNIS BECKHAM
DENNIS PALMER
DING WEI XIANG
FENG MENG
GE DUO
GOH HUI YING
HUANG WENXIN
HUANG XUANTI
HUANG ZHANPENG
IRIS BROWN
JENNY HUNT
KEN OWEN
LISA SMITH
LIU SHAOJUN
LIU YIHUI
LIU ZHANPENG
LIU ZHENCAI
NEELAM DEOL
NG ANH QUANG
NGOO KAI TING
NG QI YANG
NG YAN FEN
NG YONG MING
PENG JIAYUAN
POH HUI LING
QIN YIYANG
QIN YUWEI
SEAH TECK KEE
SIOH CAO KHOA
TAY WEI GUO
TAY YONG MING
TSO HUI LIN
WANG NA
ZHANG HAN
ZHANG HONG
ZHAO YANG
ZHENG NANA
ZHENG XI
ZHENG ZHEMIN
ZHOU XIALIN
ZHU CHANG

```
47 rows in set (0.000 sec)
```

```
MariaDB [lab3database]>
```

3.

2. MariaDB [lab3database]> select name from student order by name desc;

```
+-----+
3. | name |
+-----+
4. | ZHU CHANG |
5. | ZHOU XIALIN |
6. | ZHENG ZHEMIN |
7. | ZHENG XI |
8. | ZHENG NANA |
9. | ZHAO YANG |
10. | ZHANG HONG |
11. | ZHANG HAN |
12. | WANG NA |
13. | TSO HUI LIN |
14. | TAY YONG MING |
15. | TAY WEI GUO |
16. | SIOH CAO KHOA |
17. | SEAH TECK KEE |
18. | QIN YUWEI |
19. | QIN YIYANG |
20. | POH HUI LING |
21. | PENG JIAYUAN |
22. | NGOO KAI TING |
23. | NG YONG MING |
24. | NG YAN FEN |
25. | NG QI YANG |
26. | NG ANH QUANG |
27. | NEELAM DEOL |
28. | LIU ZHENCAI |
29. | LIU ZHANPENG |
30. | LIU YIHUI |
31. | LIU SHAOJUN |
32. | LISA SMITH |
33. | KEN OWEN |
34. | JENNY HUNT |
35. | IRIS BROWN |
36. | HUANG ZHANPENG |
37. | HUANG XUANTI |
38. | HUANG WENXIN |
39. | GOH HUI YING |
40. | GE DUO |
41. | FENG MENG |
42. | DING WEI XIANG |
43. | DENNIS PALMER |
44. | DENNIS BECKHAM |
45. | DAVID HALL |
46. | DAVID CHAPMAN |
47. | CHOY YI TING |
48. | CHNG HUI LING |
49. | ANNIE CHAPMAN |
50. | ANG JIA YI |
+-----+
47 rows in set (0.000 sec)
```

MariaDB [lab3database]>

4.

```
MariaDB [lab3database]> select distinct name from student;
+-----+
| name |
+-----+
| ANG JIA YI |
| ANNIE CHAPMAN |
| CHNG HUI LING |
| CHOY YI TING |
| DAVID CHAPMAN |
| DAVID HALL |
| DENNIS BECKHAM |
| DENNIS PALMER |
| DING WEI XIANG |
| FENG MENG |
| GE DUO |
| GOH HUI YING |
| HUANG WENXIN |
| HUANG XUANTI |
| HUANG ZHANPENG |
| IRIS BROWN |
| JENNY HUNT |
| KEN OWEN |
| LISA SMITH |
| LIU SHAOJUN |
| LIU YIHUI |
| LIU ZHANPENG |
| LIU ZHENCAI |
| NEELAM DEOL |
| NG ANH QUANG |
| NGOO KAI TING |
| NG QI YANG |
| NG YAN FEN |
| NG YONG MING |
| PENG JIAYUAN |
| POH HUI LING |
| QIN YIYANG |
| QIN YUWEI |
| SEAH TECK KEE |
| SIOW CAO KHOA |
| TAY WEI GUO |
| TAY YONG MING |
| TSO HUI LIN |
| WANG NA |
| ZHANG HAN |
| ZHANG HONG |
| ZHAO YANG |
| ZHENG NANA |
| ZHENG XI |
| ZHENG ZHEMIN |
| ZHOU XIALIN |
| ZHU CHANG |
+-----+
47 rows in set (0.000 sec)

MariaDB [lab3database]> _
```

5.

```
MariaDB [lab3database]> select name from student;
+-----+
| name |
+-----+
| ANG JIA YI |
| ANNIE CHAPMAN |
| CHNG HUI LING |
| CHOY YI TING |
| DAVID CHAPMAN |
| DAVID HALL |
| DENNIS BECKHAM |
| DENNIS PALMER |
| DING WEI XIANG |
| FENG MENG |
| GE DUO |
| GOH HUI YING |
| HUANG WENXIN |
| HUANG XUANTI |
| HUANG ZHANPENG |
| IRIS BROWN |
| JENNY HUNT |
| KEN OWEN |
| LISA SMITH |
| LIU SHAOJUN |
| LIU YIHUI |
| LIU ZHANPENG |
| LIU ZHENCAI |
| NEELAM DEOL |
| NG ANH QUANG |
| NGOO KAI TING |
| NG QI YANG |
| NG YAN FEN |
| NG YONG MING |
| PENG JIAYUAN |
| POH HUI LING |
| QIN YIYANG |
| QIN YUWEI |
| SEAH TECK KEE |
| SIOW CAO KHOA |
| TAY WEI GUO |
| TAY YONG MING |
| TSO HUI LIN |
| WANG NA |
| ZHANG HAN |
| ZHANG HONG |
| ZHAO YANG |
| ZHENG NANA |
| ZHENG XI |
| ZHENG ZHEMIN |
| ZHOU XIALIN |
| ZHU CHANG |
+-----+
47 rows in set (0.000 sec)

MariaDB [lab3database]> _
```

6.

```
MariaDB [lab3database]> select name from student inner join copy on student.email = copy.owner where copy.book = '978-0321474049';
+-----+
| name |
+-----+
| DAVID HALL |
| LIU ZHENCAI |
| NG YONG MING |
| WANG NA |
+-----+
4 rows in set (0.000 sec)

MariaDB [lab3database]> _
```

7.

```
MariaDB [lab3database]> select s.name
-> from student s
-> inner join copy c
-> on s.email = c.owner
-> inner join book b
-> on c.book = b.isbn13
-> where b.title like '%Photoshop%'
-> and b.pages > 100;
+-----+
| name |
+-----+
| GOH HUI YING |
| JENNY HUNT |
| TSO HUI LIN |
| WANG NA |
+-----+
4 rows in set (0.000 sec)

MariaDB [lab3database]> _
```

8.

```
MariaDB [lab3database]> select round(sum(pages)/2) from book where isbn13='978-0321474049'
-> OR isbn13='978-0684801520';
+-----+
| round(sum(pages)/2) |
+-----+
| 218 |
+-----+
1 row in set (0.002 sec)

MariaDB [lab3database]> _
```

9.

```
MariaDB [lab3database]> select distinct s.name
-> from student s
-> inner join copy c
-> on s.email = c.owner
-> where not book = '978-0321474049';
```

name
JENNY HUNT
LIU SHAOJUN
TAY WEI GUO
GOH HUI YING
TSO HUI LIN
WANG NA
HUANG ZHANPENG
QIN YUWEI
ZHANG HAN
ZHU CHANG

10 rows in set (0.002 sec)

10.

```
MariaDB [lab3database]> select distinct s.name from student s
-> inner join loan l
-> on s.email = l.borrower
-> where l.book = '978-0321474049';
```

name
CHNG HUI LING
CHOY YI TING
DAVID CHAPMAN
DENNIS BECKHAM
DENNIS PALMER
GE DUO
HUANG XUANTI
JENNY HUNT
LISA SMITH
LIU YIHUI
LIU ZHENCAI
NG ANH QUANG
ZHOU XIALIN
ZHU CHANG

14 rows in set (0.001 sec)



11.

```
MariaDB [lab3database]> select s.name from student s
-> inner join copy c
-> on s.email = c.owner
-> where book = '978-0321474049'
-> union
-> select s.name from student s
-> inner join loan l
-> on s.email = l.borrower
-> where book = '978-0321474049';
```

name
DAVID HALL
LIU ZHENCAI
NG YONG MING
WANG NA
CHNG HUI LING
CHOY YI TING
DAVID CHAPMAN
DENNIS BECKHAM
DENNIS PALMER
GE DUO
HUANG XUANTI
JENNY HUNT
LISA SMITH
LIU YIHUI
NG ANH QUANG
ZHOU XIALIN
ZHU CHANG

17 rows in set (0.002 sec)



12.

```
MariaDB [lab3database]> select distinct s.name from student s
-> inner join loan l
-> on s.email = l.owner or s.email = l.borrower
-> where l.book = '978-0321474049';
```

name
WANG NA
ZHOU XIALIN
CHOY YI TING
NG YONG MING
ZHU CHANG
GE DUO
JENNY HUNT
DENNIS BECKHAM
LIU ZHENCAI
DAVID HALL
DENNIS PALMER
NG ANH QUANG
HUANG XUANTI
CHNG HUI LING
LIU YIHUI
LISA SMITH
DAVID CHAPMAN

17 rows in set (0.000 sec)

13.

```
MariaDB [lab3database]> show profiles;
+-----+-----+-----+
| Query_ID | Duration | Query |
+-----+-----+-----+
|          1 | 0.00049460 | select distinct s.name from student s
inner join loan l
on s.email = l.owner or s.email = l.borrower
where l.book = '978-0321474049' |
|          2 | 0.00044260 | select s.name from student s
inner join copy c
on s.email = c.owner
where book = '978-0321474049' |
union
select s.name from student s
inner join loan l
on s.email = l.borrower
where book = '978-0321474049' |
+-----+-----+-----+
2 rows in set (0.000 sec)

MariaDB [lab3database]>
```

14.

```
MariaDB [lab3database]> delete from loan;
Query OK, 55 rows affected (0.004 sec)

MariaDB [lab3database]> _
```

15.

```
MariaDB [lab3database]> select distinct s.name from student s
-> inner join loan l
-> on s.email = l.owner or s.email = l.borrower
-> where l.book = '978-0321474049';
Empty set (0.000 sec)

MariaDB [lab3database]> 2101446 CHANG WEE SIANG WILSON
-> ;
```