Name: Sanika M. Sarang   topic: primary key, foreign key, inner joins


```
owners.

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

mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| acpatildb          |
| employee           |
| information_schema |
| mysql              |
| performance_schema |
| sakila             |
| sys                |
| world              |
+--------------------+
8 rows in set (0.01 sec)

mysql> use acpatildb;
Database changed
mysql> show tables;
+---------------------+
| Tables_in_acpatildb |
+---------------------+
| marksheet           |
| person              |
| productdata         |
| productdata1        |
| sales               |
| student             |
| teacher             |
+---------------------+
7 rows in set (0.01 sec)

mysql> select * from marsheet;
ERROR 1146 (42S02): Table 'acpatildb.marsheet' doesn't exist
```



```
mysql> select * from student;
+-------------+--------+----------------+-----------+
| studentname | rollno | stud_email     | mobileno  |
+-------------+--------+----------------+-----------+
| sanika      |     44 | sanu@gmail.com | 986769709 |
| ayushi      |     56 | ayu@gmail.com  | 98676975  |
| vishwaja    |     61 | bisu@gmail.com | 98676946  |
| shreya      |     72 | shrey@gmail.com| 99456790  |
| mugdha      |     74 | mug@gmail.com  | 98676123  |
| ritesh      |     67 | rdx@gmail.com  | NULL      |
+-------------+--------+----------------+-----------+
6 rows in set (0.00 sec)

mysql> descc marksheet;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the righ
t syntax to use near 'descc marksheet' at line 1
mysql> desc marksheet;
+-------------+-------------+------+-----+---------+-------+
| Field       | Type        | Null | Key | Default | Extra |
+-------------+-------------+------+-----+---------+-------+
| studentname | varchar(14) | YES  |     | NULL    |       |
| rollno      | int         | YES  |     | NULL    |       |
| percentage  | int         | YES  |     | NULL    |       |
+-------------+-------------+------+-----+---------+-------+
3 rows in set (0.00 sec)

mysql> delete from marksheet;
Query OK, 0 rows affected (0.00 sec)

mysql> desc marksheet;
+-------------+-------------+------+-----+---------+-------+
| Field       | Type        | Null | Key | Default | Extra |
+-------------+-------------+------+-----+---------+-------+
| studentname | varchar(14) | YES  |     | NULL    |       |
| rollno      | int         | YES  |     | NULL    |       |
| percentage  | int         | YES  |     | NULL    |       |
+-------------+-------------+------+-----+---------+-------+
```

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```
t syntax to use near 'name varchar(45),
course varchar(25)
)' at line 3
mysql> create table studentinfo(
    -> roll_no int primary key,
    -> student_name varchar(45),
    -> course varchar(25)
    -> );
Query OK, 0 rows affected (0.03 sec)

mysql> create table scorecard(
    -> scorecard_id int primary key,
    -> total int,
    -> rollno int,
    -> foreign key(rollno) references studentinfo(roll_no));
Query OK, 0 rows affected (0.03 sec)

mysql> insert into student values(1, "sanika", "aids");
ERROR 1136 (21S01): Column count doesn't match value count at row 1
mysql> insert into studentinfo values(1, "sanika", "aids");
Query OK, 1 row affected (0.01 sec)

mysql> insert into studentinfo values(2, "ayushi", "aids");
Query OK, 1 row affected (0.01 sec)

mysql> insert into studentinfo values(3, "shreya", "comps");
Query OK, 1 row affected (0.01 sec)

mysql> insert into studentinfo values(4, "vishwaja", "it");
Query OK, 1 row affected (0.00 sec)

mysql> insert into studentinfo values(5, "ritesh", "extc");
Query OK, 1 row affected (0.01 sec)

mysql> select * from studentinfo;
+---------+--------------+--------+
| roll_no | student_name | course |
```

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```
mysql> select * from studentinfo;
+---------+--------------+--------+
| roll_no | student_name | course |
+---------+--------------+--------+
|       1 | sanika       | aids   |
|       2 | ayushi       | aids   |
|       3 | shreya       | comps  |
|       4 | vishwaja     | it     |
|       5 | ritesh       | extc   |
+---------+--------------+--------+
5 rows in set (0.00 sec)

mysql> insert into scorecard values(101, 96, 1);
Query OK, 1 row affected (0.01 sec)

mysql> insert into scorecard values(102, 91, 2);
Query OK, 1 row affected (0.01 sec)

mysql> insert into scorecard values(103, 89, 3);
Query OK, 1 row affected (0.01 sec)

mysql> insert into scorecard values(104, 85, 4);
Query OK, 1 row affected (0.01 sec)

mysql> insert into scorecard values(105, 82, 5);
Query OK, 1 row affected (0.01 sec)

mysql> select * from scorecard;
+--------------+-------+--------+
| scorecard_id | total | rollno |
+--------------+-------+--------+
|          101 |    96 |      1 |
|          102 |    91 |      2 |
|          103 |    89 |      3 |
|          104 |    85 |      4 |
|          105 |    82 |      5 |
```

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```
| scorecard_id | total | rollno |
+--------------+-------+--------+
|          101 |    96 |      1 |
|          102 |    91 |      2 |
|          103 |    89 |      3 |
|          104 |    85 |      4 |
|          105 |    82 |      5 |
+--------------+-------+--------+
5 rows in set (0.00 sec)

mysql> create table customer(
    -> custid int primary key,
    -> custname varchar(20),
    -> address varchar(20)
    -> );
Query OK, 0 rows affected (0.03 sec)

mysql> create table product(
    -> productid int primary key,
    -> proname varchar(20),
    -> price decimal(10,2),
    -> custid int,
    -> foreign key (custid) references customer(custid));
Query OK, 0 rows affected (0.03 sec)

mysql> insert into customer values(1,"sanu","navi mumbai");
Query OK, 1 row affected (0.01 sec)

mysql> insert into customer values(2,"ayu","dombivli");
Query OK, 1 row affected (0.01 sec)

mysql> insert into customer values(3,"bisu","bhandup");
Query OK, 1 row affected (0.01 sec)

mysql> insert into customer values(4,"shreyu","airoli");
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into customer values(4,"shreyu","airoli");
Query OK, 1 row affected (0.01 sec)

mysql> select * from customer;
+--------+----------+-------------+
| custid | custname | address     |
+--------+----------+-------------+
|      1 | sanu     | navi mumbai |
|      2 | ayu      | dombivli    |
|      3 | bisu     | bhandup     |
|      4 | shreyu   | airoli      |
+--------+----------+-------------+
4 rows in set (0.00 sec)

mysql> insert into product values(101,"led strips",350.00,1);
Query OK, 1 row affected (0.01 sec)

mysql> insert into product values(102,"matresses",200.00,2);
Query OK, 1 row affected (0.01 sec)

mysql> insert into product values(103,"brush",50.00,3);
Query OK, 1 row affected (0.01 sec)

mysql> insert into product values(104,"drawers",400.00,4);
Query OK, 1 row affected (0.01 sec)

mysql> select * from product;
+-----------+------------+--------+--------+
| productid | proname    | price  | custid |
+-----------+------------+--------+--------+
|       101 | led strips | 350.00 |      1 |
|       102 | matresses  | 200.00 |      2 |
|       103 | brush      |  50.00 |      3 |
|       104 | drawers    | 400.00 |      4 |
+-----------+------------+--------+--------+
4 rows in set (0.00 sec)
```

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```
4 rows in set (0.00 sec)

mysql> desc product;
+-----------+---------------+------+-----+---------+-------+
| Field     | Type          | Null | Key | Default | Extra |
+-----------+---------------+------+-----+---------+-------+
| productid | int           | NO   | PRI | NULL    |       |
| proname   | varchar(20)   | YES  |     | NULL    |       |
| price     | decimal(10,2) | YES  |     | NULL    |       |
| custid    | int           | YES  | MUL | NULL    |       |
+-----------+---------------+------+-----+---------+-------+
4 rows in set (0.00 sec)

mysql> desc customer;
+-----------+---------------+------+-----+---------+-------+
| Field     | Type          | Null | Key | Default | Extra |
+-----------+---------------+------+-----+---------+-------+
| custid    | int           | NO   | PRI | NULL    |       |
| custname  | varchar(20)   | YES  |     | NULL    |       |
| address   | varchar(20)   | YES  |     | NULL    |       |
+-----------+---------------+------+-----+---------+-------+
3 rows in set (0.00 sec)

mysql>
mysql> create table productinfo(
    -> pid int primary key,
    -> pname varchar(20),
    -> price int
    -> );
Query OK, 0 rows affected (0.03 sec)

mysql> create table category1(
    -> cid int primary key,
    -> category varchar(25),
    -> pid int,
    -> foreign key(pid) references productinfo(pid));
Query OK, 0 rows affected (0.04 sec)
```

```
Query OK, 0 rows affected (0.04 sec)

mysql> insert into productinfo values(1,"soap", 60);
Query OK, 1 row affected (0.01 sec)

mysql> insert into productinfo values(2,"noodles", 50);
Query OK, 1 row affected (0.00 sec)

mysql> insert into productinfo values(3,"rice", 100);
Query OK, 1 row affected (0.00 sec)

mysql> insert into productinfo values(4,"surf", 120);
Query OK, 1 row affected (0.01 sec)

mysql> insert into category1 values(101, "washng product",1);
Query OK, 1 row affected (0.01 sec)

mysql> insert into category1 values(102, "food",2);
Query OK, 1 row affected (0.01 sec)

mysql> insert into category1 values(103, "food",3);
Query OK, 1 row affected (0.01 sec)

mysql> insert into category1 values(104, "washng product",4);
Query OK, 1 row affected (0.01 sec)

mysql> select * from productinfo;
+-----+---------+-------+
| pid | pname   | price |
+-----+---------+-------+
|   1 | soap    |    60 |
|   2 | noodles |    50 |
|   3 | rice    |   100 |
|   4 | surf    |   120 |
+-----+---------+-------+
4 rows in set (0.00 sec)
```

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```
mysql> select * from category1;
+-----+----------------+------+
| cid | category       | pid  |
+-----+----------------+------+
| 101 | washng product |    1 |
| 102 | food           |    2 |
| 103 | food           |    3 |
| 104 | washng product |    4 |
+-----+----------------+------+
4 rows in set (0.00 sec)

mysql> select productinfo.pid as product_id, productinfo.pname
as name, category.category
    -> from productinfo
    -> from productinfo ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the righ
t syntax to use near 'from productinfo' at line 3
mysql> select productinfo.pid as product_id, productinfo.pname as name, category.category
    -> from productinfo ;
ERROR 1054 (42S22): Unknown column 'category.category' in 'field list'
mysql> select productinfo.pid as product_id, productinfo.pname as name, category1.category
    -> from productinfo
    -> inner join category1 on
    -> roductinfo.pid=category.pid;
ERROR 1054 (42S22): Unknown column 'roductinfo.pid' in 'on clause'
mysql> select productinfo.pid as product_id, productinfo.pname as name, category1.category
    -> from productinfo
    -> inner join category1 on
    -> productinfo.pid=category.pid;
ERROR 1054 (42S22): Unknown column 'category.pid' in 'on clause'
mysql> select productinfo.pid as product_id, productinfo.pname as name, category1.category
    -> from productinfo
    -> inner join category1 on
    -> productinfo.pid=category1.pid;
+------------+--------+----------------+
| product_id | name   | category       |
+------------+--------+----------------+
```

```
    -> inner join category1 on
    -> productinfo.pid=category1.pid;
+------------+--------+----------------+
| product_id | name   | category       |
+------------+--------+----------------+
|          1 | soap   | washng product |
|          2 | noodles| food           |
|          3 | rice   | food           |
|          4 | surf   | washng product |
+------------+--------+----------------+
4 rows in set (0.00 sec)

mysql> insert into productinfo values(5,"barbie",200)
    -> ;
Query OK, 1 row affected (0.01 sec)

mysql> select productinfo.proid, category1.category
    -> from productinfo
    -> left join on category on
    -> productinfo.pid=category1.pid;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the righ
t syntax to use near 'on category on
productinfo.pid=category1.pid' at line 3
mysql> select productinfo.proid, category1.category
    -> from productinfo
    -> left join on category1 on
    -> productinfo.pid=category1.pid;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the righ
t syntax to use near 'on category1 on
productinfo.pid=category1.pid' at line 3
mysql> select productinfo.pid, category1.category
    -> from productinfo
    -> left join on category1 on
    -> productinfo.pid=category1.pid;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the righ
t syntax to use near 'on category1 on
productinfo.pid=category1.pid' at line 3
```

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```
mysql> select productinfo.pid, category1.category
    -> from productinfo
    -> left join on category1 on
    -> productinfo.pid=category1.pid;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the righ
t syntax to use near 'on category1 on
productinfo.pid=category1.pid' at line 3
mysql> select productinfo.proid, category1.category
    -> from productinfo
    -> left inner join on category1 on
    -> productinfo.pid=category1.pid;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the righ
t syntax to use near 'inner join on category1 on
productinfo.pid=category1.pid' at line 3
mysql> select productinfo.pid, category1.category
    -> from productinfo
    -> left join category1 on
    -> productinfo.pid=category1.pid;
+-----+-----------------+
| pid | category        |
+-----+-----------------+
|   1 | washng product  |
|   2 | food            |
|   3 | food            |
|   4 | washng product  |
|   5 | NULL            |
+-----+-----------------+
5 rows in set (0.00 sec)

mysql>
```