

mca@localhost:~

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mysql> desc products;

Field	Type	Null	Key	Default	Extra
product_id	int	NO	PRI	NULL	
name	varchar(50)	NO	UNI	NULL	
price	float(6,2)	YES		100.00	
category_id	int	YES	MUL	NULL	
quantity	int	YES		NULL	

5 rows in set (0.00 sec)

mysql> alter table products modify product_id int auto_increment;

Query OK, 7 rows affected (0.97 sec)

Records: 7 Duplicates: 0 Warnings: 0

mysql>

mysql>

mysql> select name from categories union select name from products;

name
Phones
Laptops
Consoles
iPhone
Windows
Xbox
MAC X
Dell XPS 15
iPhone 12
MAC Mni
MacBook Pro
Nintendo
Sony PlayStation 5
Xbox Series X

```
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mysql> select name from categories union {all} select name from products;  
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 '{all} select name from products' at line 1  
mysql> select name from categories union all select name from products;  
+-----+  
| name |  
+-----+  
| Phones |  
| Laptops |  
| Consoles |  
| iPhone |  
| Windows |  
| Xbox |  
| MAC X |  
| Dell XPS 15 |  
| iPhone 12 |  
| MAC Mni |  
| MacBook Pro |  
| Nintendo |  
| Sony PlayStation 5 |  
| Xbox Series X |  
+-----+  
14 rows in set (0.01 sec)  
  
mysql>  
mysql> select * from products;  
+-----+-----+-----+-----+-----+  
| product_id | name | price | category_id | quantity |  
+-----+-----+-----+-----+-----+  
| 1 | iPhone 12 | 999.99 | 4 | 10 |  
| 2 | MacBook Pro | 1999.99 | 2 | 5 |  
| 3 | Dell XPS 15 | 1599.99 | 5 | 8 |  
| 4 | Sony PlayStation 5 | 499.99 | 3 | 20 |  
| 5 | Nintendo | 149.99 | 3 | 12 |  
| 6 | Xbox Series X | 499.99 | 6 | NULL |  
| 7 | MAC Mni | 129.00 | 2 | 10 |  
+-----+-----+-----+-----+-----+
```

```
+-----+-----+-----+-----+
7 rows in set (0.00 sec)
```

category_id	name	parent_category
1	Phones	NULL
2	Laptops	NULL
3	Consoles	NULL
4	iPhone	1
5	Windows	2
6	Xbox	3
7	MAC X	2

```
mysql> select * fom categories join products on categories.category_id=products.category_id;
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 'fom categories join products on categories.category_id=products.category_id' at line 1
mysql> select * fom categories join products on categories.category_id = products.category_id;
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 'fom categories join products on categories.category_id = products.category_id' at line 1
mysql> select * from categories join products on categories.category id=products.category id;
```

category_id	name	parent_category	product_id	name	price	category_id	quantity
2	Laptops	NULL	2	MacBook Pro	1999.99	2	5
2	Laptops	NULL	7	MAC Mni	129.00	2	10
3	Consoles	NULL	4	Sony PlayStation 5	499.99	3	20
3	Consoles	NULL	5	Nintendo	149.99	3	12
4	iPhone	1	1	iPhone 12	999.99	4	10
5	Windows	2	3	Dell XPS 15	1599.99	5	8
6	Xbox	3	6	Xbox Series X	499.99	6	NULL

```
7 rows in set (0.00 sec)
```

```
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7 rows in set (0.00 sec)  
  
mysql> mysql> create view product_category as(select c.category_id,c.name as category_name,c.parent_category,p.product_id,p.name as product_name,  
p.price,p.quantity from categories as c left outer join products as p on c.category_id = p.category_id;  
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 '.name as category_name,c.parent_category,p.product_id,p.name as product_name,p.p' at line 1  
mysql> create view product_category as(select c.category_id,c.name a.name as category_name,c.parent_category,p.product_id,p.name as product_name,  
p.price,p.quantity from categories as c left outer join products as p on c.category_id = p.category_id);  
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 '.name as category_name,c.parent_category,p.product_id,p.name as product_name,p.p' at line 1  
mysql> create view product_category as(select c.category_id,c.name a.name as category_name,c.parent_category,p.product_id,p.name as product_name,  
p.price,p.quantity from categories as c left outer join products as p on c.category_id = p.category_id);  
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 '.name as category_name,c.parent_category,p.product_id,p.name as product_name,p.p' at line 1  
mysql>  
mysql>  
mysql> create view product_category as(select c.category_id,c.name as category_name,c.parent_category,p.product_id,p.name as product_name,p.price  
,p.quantity from categories as c left outer join products as p on c.category_id = p.category_id);  
Query OK, 0 rows affected (0.06 sec)  
  
mysql> select * from product_category;  
+-----+-----+-----+-----+-----+-----+-----+  
| category_id | category_name | parent_category | product_id | product_name | price | quantity |  
+-----+-----+-----+-----+-----+-----+-----+  
| 1 | Phones | NULL | NULL | NULL | NULL | NULL |  
| 2 | Laptops | NULL | 2 | MacBook Pro | 1999.99 | 5 |  
| 2 | Laptops | NULL | 7 | MAC Mni | 129.00 | 10 |  
| 3 | Consoles | NULL | 4 | Sony PlayStation 5 | 499.99 | 20 |  
| 3 | Consoles | NULL | 5 | Nintendo | 149.99 | 12 |  
| 4 | iPhone | 1 | 1 | iPhone 12 | 999.99 | 10 |  
| 5 | Windows | 2 | 3 | Dell XPS 15 | 1599.99 | 8 |  
| 6 | Xbox | 3 | 6 | Xbox Series X | 499.99 | NULL |  
| 7 | MAC X | 2 | NULL | NULL | NULL | NULL |  
+-----+-----+-----+-----+-----+-----+-----+  
9 rows in set (0.00 sec)  
  
mysql>
```