

```
create table abc(foo int, bar varchar(10));insert into abc values((1,'2'),(2,'1'));
```

query	hive	mysql	postgres	Oracle
select foo as c0, count(*) as c1 from abc group by foo				
select foo as c0, count(*) as c1 from abc group by c0	FAILED: SemanticException [Error 10004]: Line 1:51 Invalid table alias or column reference 'c0': (possible column names are: foo, bar)			select foo as c0, count(*) as c1 from abc group by c0  * ERROR at line 1: ORA-00904: "C0": invalid identifier
select foo as c0, count(*) as c1 from abc group by foo order by foo				
select foo as c0, count(*) as c1 from abc group by foo order by c0				
select foo as b, count(*) as c1 from abc group by foo order by bar	FAILED: SemanticException [Error 10004]: Line 1:63 Invalid table alias or column reference 'bar': (possible column names are: b, c1)	2,1 1,2	ERROR: column "abc.bar" must appear in the GROUP BY clause or be used in an aggregate function LINE 1: ...foo as b, count(*) as c1 from abc group by foo order by bar;  ^	select foo as b, count(*) as c1 from abc group by foo order by bar  * ERROR at line 1: ORA-00979: not a GROUP BY expression
select foo as bar, count(*) as c1 from abc group by foo order by bar	1,1 2,1			
select foo as c0, count(*) as c1 from abc group by foo, bar having bar like '%abc%' order by foo;	CBO-on: Pass CBO-off: FAILED: SemanticException [Error 10004]: Line 1:93 Invalid table alias or column reference 'foo': (possible column names are: c0, c1)			
select foo as c0, count(*) as c1 from abc group by foo, bar having c0 like '%abc%' order by foo;	FAILED: SemanticException [Error 10004]: Line 1:92 Invalid table alias or column reference 'foo': (possible column names are: c0, c1)		ERROR: column "c0" does not exist LINE 1: ... count(*) as c1 from abc group by foo, bar having c0 like '%...'  ^	select foo as c0, count(*) as c1 from abc group by foo, bar having c0 like '%abc%' order by foo  * ERROR at line 1: ORA-00904: "C0": invalid identifier
select foo as c0, count(*) as c1 from abc group by foo, bar having c1 like '%abc%' order by foo;	FAILED: SemanticException [Error 10004]: Line 1:92 Invalid table alias or column reference 'foo': (possible column names are: c0, c1)		ERROR: column "c1" does not exist LINE 1: ... count(*) as c1 from abc group by foo, bar having c1 like '%...'  ^	select foo as c0, count(*) as c1 from abc group by foo, bar having c1 like '%abc%' order by foo  * ERROR at line 1: ORA-00904: "C1": invalid identifier