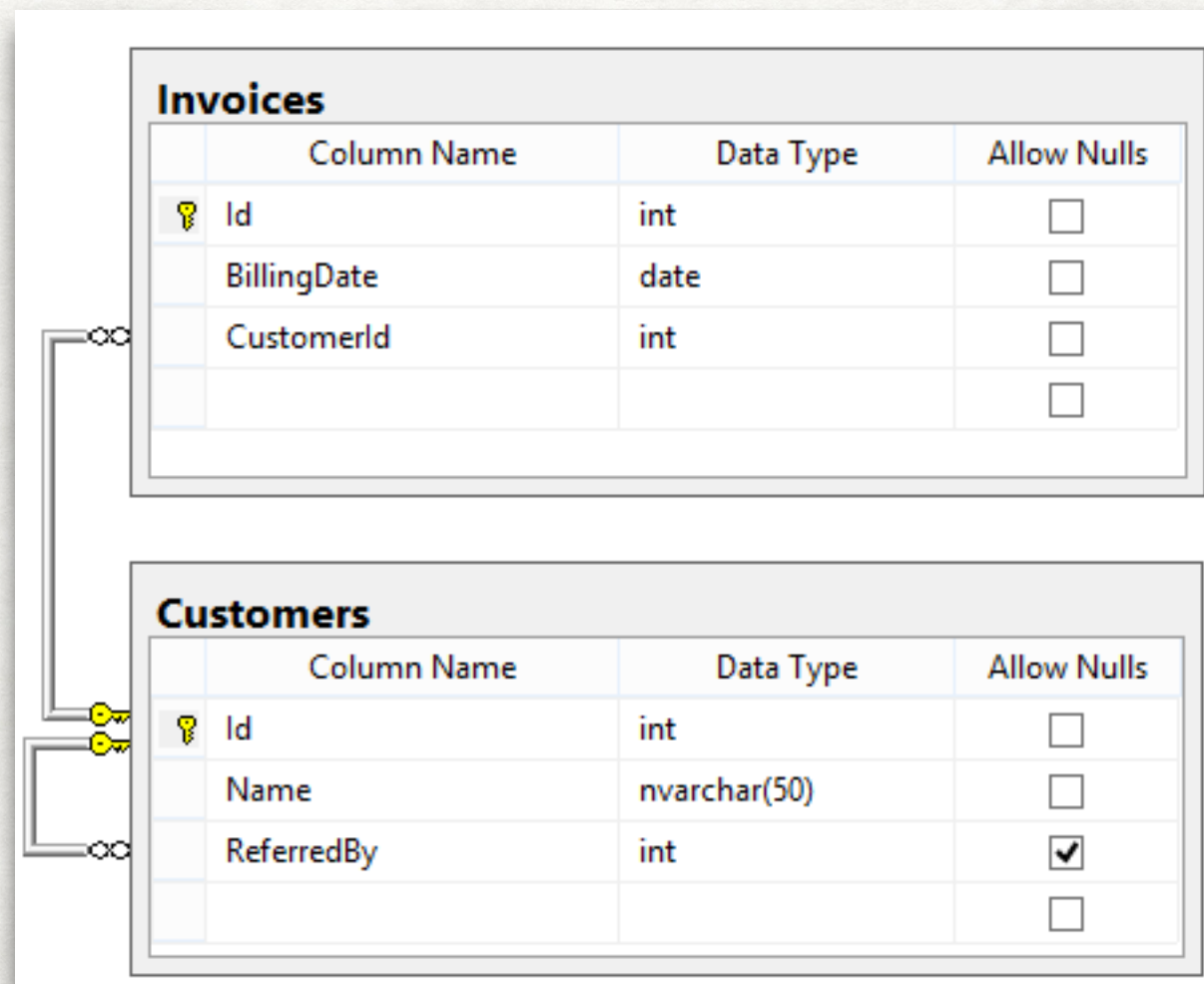# WEEK 8 QUIZ

GIVEN THE TABLE BELOW

WE HAVE A QUERY ATTEMPTING TO RETURN ALL CUSTOMERS NOT REFERRED BY JANE SMITH. WHAT IS WRONG WITH THIS QUERY, AND HOW CAN IT BE FIXED?

SELECT NAME FROM CUSTOMERS WHERE REFERREDBY <> 2;

Id	Name	ReferredBy
1	John Doe	NULL
2	Jane Smith	NULL
3	Anne Jenkins	2
4	Eric Branford	NULL
5	Pat Richards	1
6	Alice Barnes	2

FOR THE SCHEMA BELOW, WRITE THE SQL STATEMENT TO RETURN A LIST OF ALL THE INVOICES. FOR EACH INVOICE, SHOW THE INVOICE ID, THE BILLING DATE, THE CUSTOMER'S NAME, AND THE NAME OF THE CUSTOMER WHO REFERRED THAT CUSTOMER (IF ANY). THE LIST SHOULD BE ORDERED BY BILLING DATE.

Invoices

	Column Name	Data Type	Allow Nulls
🔑	Id	int	☐
	BillingDate	date	☐
	CustomerId	int	☐
			☐

Customers

	Column Name	Data Type	Allow Nulls
🔑	Id	int	☐
	Name	nvarchar(50)	☐
	ReferredBy	int	☑
			☐

ASSUME A SCHEMA OF TWO TABLES AS BELOW:
EMP (ID, NAME, DEPTID)
DEPT (ID, NAME).

IF THERE ARE 10 RECORDS IN THE `EMP` TABLE AND 5 RECORDS IN THE `DEPT` TABLE, HOW MANY ROWS WILL BE DISPLAYED IN THE RESULT OF THE FOLLOWING SQL QUERY:

SELECT * FROM EMP, DEPT

GIVEN THE TABLE BELOW,
WRITE A QUERY TO FETCH VALUES IN TABLE TEST_A THAT ARE AND NOT IN TEST_B WITHOUT USING THE 'NOT' KEYWORD.

```sql
create table test_a(id numeric);

create table test_b(id numeric);

insert into test_a(id) values
  (10),
  (20),
  (30),
  (40),
  (50);

insert into test_b(id) values
  (10),
  (30),
  (50);
```

THE QUESTIONS WERE STOLEN FROM: HTTPS://WWW.TOPTAL.COM/SQL/INTERVIEW-QUESTIONS