FOREIGN KEY

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<u>Foreign key</u>

• is a column or columns of data in one table that refers to the unique data values

• often the primary key data

• Foreign keys link together two or more tables in a relationship database.

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Customers			Orders					
CustomerNo	FirstName	LastName	OrderNo	EmployeeNo	CustomerNo	Supplier	Price	Item
1	Sally	Thompson	1	1	42	Harrison	\$235	desk
2	Sally	Henderson	2	4	1	Ford	\$234	chair
3	Harry	Henderson	3	1	68	Harrison	\$415	table
4	Sandra	Wellington	4	2	4	Ford	\$350	lamp
6	Arthur	Paulson	5	3	6	Ford	\$234	chair
7	Derry	Beckham	6	2	112	Ford	\$350	lamp
8	Maude	Jones	7	2	8	Harrison	\$235	desk
Primary key					Foreign key			

 set of constraints in DBMS that establish relationships between tables and also ensure consistency and integrity of data. مجموعة من القيود في نظام إدارة قواعد البيانات (DBMS) التي تنشئ علاقات بين الجداول وتضمن أيضًا اتساق البيانات وتكاملها.

```
CREATE TABLE Orders (
OrderID int NOT NULL,
OrderNumber int NOT NULL,
PersonID int,
PRIMARY KEY (OrderID),
FOREIGN KEY (PersonID) REFERENCES Persons(PersonID)
);
```

SQL Server / Oracle / MS Access:

```
CREATE TABLE Orders (
OrderID int NOT NULL PRIMARY KEY,
OrderNumber int NOT NULL,
PersonID int FOREIGN KEY REFERENCES Persons(PersonID)
);
```