Artist that one or more customers interested in

```
SELECT A.FirstName, A.LastName

FROM ARTIST AS A

WHERE EXISTS (SELECT CAI.CustomerID

FROM CUSTOMER_ARTIST_INT AS CAI

WHERE A.ArtistID = CAI.ArtistID));
```

Artists that no customer interested in

```
SELECT A.FirstName, A.LastName

FROM ARTIST AS A

WHERE NOT EXISTS (SELECT CAI.CustomerID

FROM CUSTOMER_ARTIST_INT AS CAI

WHERE A.ArtistID = CAI.ArtistID));
```

Artist that every customer interested in

```
/* *** SQL-Query-CH08-06 *** */
SELECT A.FirstName, A.LastName
FROM
      ARTIST AS A
      NOT EXISTS
WHERE
      SELECT C.CustomerID
      FROM CUSTOMER AS C
      WHERE NOT EXISTS
               (SELECT
                       CAI.CustomerID
                FROM
                      CUSTOMER ARTIST INT AS CAI
                          C.CustomerID = CAI.CustomerID
                WHERE
                  AND
                          A.ArtistID = CAI.ArtistID));
```

CUSTOMER

Custo merID	LastN ame	FirstN ame	Cou ntry	Area Code	Phone Number
1000	James	Jeffer y	USA	425	543- 2345
1001	Smith	David	USA	970	654- 9876
1015	Twilig ht	Tiffan Y	USA	360	765- 5566
1033	Smath ers	Fred	USA	206	876- 9911
1034	Freder ickson	Mary Beth	USA	303	513- 8822
1036	Wami ng	Selma	Cana da	604	988- 0512
1037	Wu	Susan	USA	404	653- 3465
1040	Gray	Donal d	USA	707	568- 4839
1041	Johns on	Lynda	USA	202	438- 5498
1051	Wilke ns	Chris	USA	360	876- 8822

ARTIST

ArtistID	LastName	FirstName	Nationality	DateOf Birth	Date Deceased
1	Miro	Joan	Spanish	1893	1983
2	Kandinsky	Wassily	Russian	1866	1944
3	Klee	Paul	German	1879	1940
4	Matisse	Henri	French	1869	1954
5	Chagall	Marc	French	1887	1985
11	Sargent	John Singer	United States	1856	1925
17	Tobey	Mark	United States	1890	1976
18	Horiuchi	Paul	United States	1906	1999
19	Graves	Morris	United States	1920	2001

Figure 7-15: Populating the VRG Database Tables: CUSTOMER_ARTIST_INT

ArtistID	CustomerID	ArtistID	CustomerID
1	1001	17	1033
1	1034	17	1040
2	1001	17	1051
2	1034	18	1000
4	1001	18	1015
4	1034	18	1033
5	1001	18	1040
5	1034	18	1051
5	1036	19	1000
11	1001	19	1015
11	1015	19	1033
11	1036	19	1036
17	1000	19	1040
17	1015	19	1051
	·		

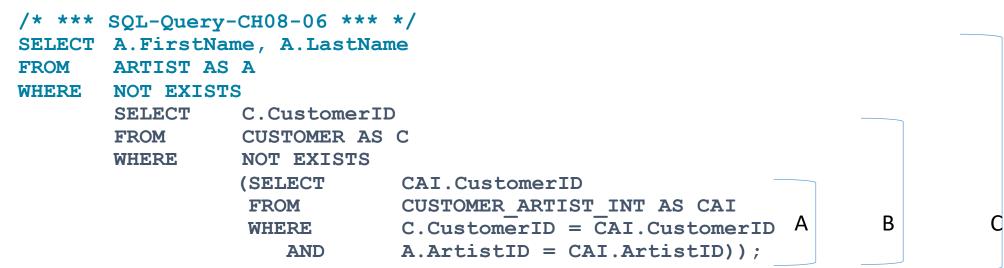
/* *** SQL-Query-CH08-06 *** */ SELECT A.FirstName, A.LastName FROM ARTIST AS A NOT EXISTS WHERE SELECT C.CustomerID FROM CUSTOMER AS C WHERE NOT EXISTS (SELECT CAI.CustomerID FROM CUSTOMER ARTIST INT AS CAI C.CustomerID = CAI.CustomerID A WHERE

AND

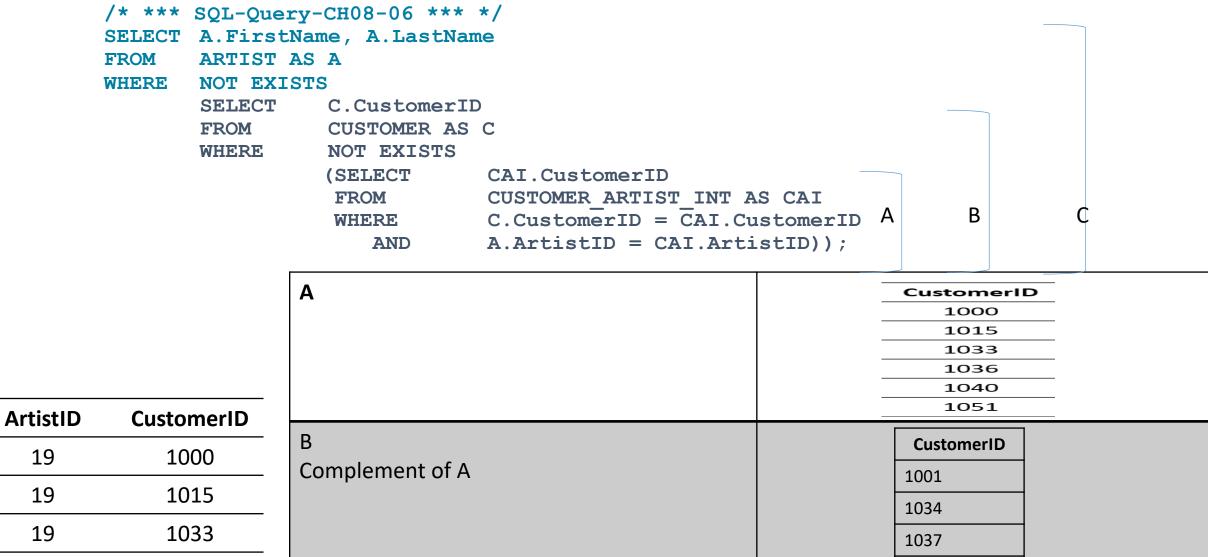
ArtistID	CustomerID
1	1001
1	1034

A	1001 1034
B Complement of A	Custo merID 1000 1015 1033 1036 1037 1040 1041
C As B returns result, it means True, No Exists means False So ArtistId=1, not listed in the final list	Title Copy

A.ArtistID = CAI.ArtistID));



		AND A.ArtistID = CAI.Artist	ID));
ArtistID	CustomerID	A	
5	1001	_	CustomerID
		_	1001
5	1034		1034
	1020	_	1036
5	1036	– B	CustomerID
		Complement of A	1000
		Complement of A	1015
			1033
			1037
			1040
			1041
			1051
		C As B returns result, it means True, No Exists means False So ArtistId=5, not listed in the final list	Title Copy



, ii ci5ci2	customens
19	1000
19	1015
19	1033
19	1036
19	1040
19	1051

As B returns result, it means True, No Exists means False

So ArtistId=19, not listed in the final list

Title Copy

1041