```
SQL> -- question 1
SQL> select C.Name from Customer C
SQL> where exists
SQL> (select * from Account A
SQL> where C.C# = A.C#);

NAME
----------
Adams
Blake
Clark
Jones

SQL> _
```

```
SQL> -- question 2
SQL> select C.Name, B.Name from Customer C, Bank B
SQL> where not exists
SQL> (select * from Account A
SQL> where C.C# = A.C# and A.B# = B.B#);

NAME       NAME
---------- ----------
Smith      England
Smith      America
Clark      Royal
Jones      Royal
Smith      Royal
Blake      France
Clark      France
Jones      France
Smith      France

9 rows selected.

SQL> _
```

```
SQL> -- question 3
SQL> select C.Name from Customer C
SQL> where not exists
SQL> (select * from Account A
SQL> where C.C# = A.C#);

NAME
----------
Smith

SQL>
```

```
SQL> -- question 4
SQL> select B.Name from Bank B
SQL> where exists
SQL> (select * from Account A, Customer C
SQL> where C.Name = 'Blake' and C.C# = A.C# and A.B# = B.B#)
SQL> union
SQL> select B.Name from Bank B
SQL> where exists
SQL> (select * from Account A, Customer C
SQL> where C.Name = 'Clark' and C.C# = A.C# and A.B# = B.B#);

NAME
----------
America
England
Royal

SQL> _
```

```
SQL> -- question 5
SQL> select C.Name from Customer C
SQL> where not exists
SQL> (select * from Bank B
SQL> where not exists
SQL>      (select * from Account A
SQL>      where C.C# = A.C# and A.B# = B.B#));

NAME
-----------
Adams

SQL> _
```

```
SQL> SELECT C.name FROM Customer C WHERE NOT EXISTS
SQL>      (SELECT * FROM Bank B WHERE
SQL>          (B.name NOT IN ('Royal', 'France')
SQL>              OR EXISTS
SQL>              (SELECT * FROM Account A WHERE C.c# = A.c# AND B.b# = A.b#))
SQL>      AND
SQL>          (B.name IN ('Royal', 'France') OR NOT EXISTS
SQL>              (SELECT * FROM Account A WHERE C.c# = A.c# AND B.b# = A.b#)));

NAME
----------
Clark
Jones

SQL>
```

```
SQL> -- question 7
SQL> select C3.Name from Customer C3, Customer C
SQL> where C3.Name != 'Clark' and C.Name = 'Clark' and exists
SQL>     (select * from Bank B, Account A1, Account A
SQL>     where C.C# = A.C# and A.B# = B.B#
SQL>     and C3.C# = A1.C# and A1.B# = B.B#);

NAME
----------
Adams
Blake
Jones

SQL> _
```

```
SQL> -- question 8
SQL> select C3.Name from Customer C3, Customer C
SQL> where C3.Name != 'Clark' and C.Name = 'Clark' and NOT exists
SQL>     (select * FROM Bank B
SQL>          WHERE EXISTS
SQL>          (SELECT * FROM Account A
SQL>          where C.C# = A.C# and A.B# = B.B#)
SQL>     and not exists
SQL>     (select * from Account A1, Account A
SQL>     where C.C# = A.C# and A.B# = B.B#
SQL>     and C3.C# = A1.C# and A1.B# = B.B#));

NAME
-----------
Adams
Blake
Jones

SQL>
```

```
SQL> -- question 9
SQL> select distinct C.Name
SQL> from Customer C, Account A1, Account A2
SQL> where C.C# = A1.C#
SQL> and C.C# = A2.C#
SQL> and A1.B# !=A2.B#;

NAME
----------
Adams
Blake
Clark
Jones

SQL> _
```

```
SQL> -- question 10
SQL> select distinct C.Name
SQL> from Customer C, Account A1 where C.C# = A1.C#
SQL> group by C.Name Having count(A1.B#)>1;

NAME
----------
Adams
Blake
Clark
Jones

SQL>
```

```
SQL> -- question 11
SQL> select *
SQL> from Customer FULL OUTER JOIN Account USING (C#)
SQL> FULL OUTER JOIN Bank USING(B#)
SQL> union
SQL> select C.Name
from SQL> Customer C, Account A1 where C.C# = A1.C#
SQL> group by C.Name Having count(A1.B#)=1;
select *
*
ERROR at line 1:
ORA-01789: query block has incorrect number of result columns


SQL> _
```

```
SQL> -- question 12
SQL> select Name, SUM(Balance)
SQL> from Customer FULL OUTER JOIN Account USING (C#)
SQL> group by C#, Name;

NAME        SUM(BALANCE)
----------- -------------
Clark               7000
Adams              10000
Blake               9000
Jones               9000
Smith

SQL>
```