

```
select firstName, lastName, income
from Customer
where income > 95000
order by lastName, firstName
```

1.

firstName	lastName	income
Clarence	Brown	95879
Sharon	Collins	99531
Victor	Doom	97412
Phillip	Edwards	99339
Christine	Gray	95821
Helen	Morgan	98442
Sean	Nelson	96216
Joe	Sanders	95144
Norma	Simmons	99902
Ryan	Williams	95170
Louise	Wilson	96214

(11 rows affected)

```

select branchName, accNumber, balance
from Account A
inner join Branch B ON B.branchNumber = A.branchNumber
where balance > 110000 AND budget > 2000000
order by branchName, accNumber

```

2.

branchName	accNumber	balance
Latveria	176	113048.79
London	1	118231.13
London	8	121267.54
London	9	132271.23
London	13	112505.84
London	26	112046.36
London	28	112617.97
London	31	111209.89
London	119	113473.16
New York	59	112534.31
New York	147	114094.94

(11 rows affected)

```

select E.firstName, E.lastName, E.salary
from Employee E, Employee V
where E.salary > V.salary*2 AND V.firstName = 'Victor' AND V.lastName = 'Doom'
order by lastName, firstName

```

3.

firstName	lastName	salary
Ernest	Adams	75896
Laura	Alexander	23477
Louise	Alexander	32204
John	Bailey	27769
Amanda	Butler	35868
Steve	Campbell	71185
Charles	Clark	32470
Sandra	Clark	39466
Stephen	Coleman	36784
Dennis	Collins	89746
Shirley	Collins	42301
Martha	Cook	41201
Tina	Cook	44853
Anna	Cooper	67275
Gerald	Diaz	59709
Victor	Doom	87242
Victor	Doom	90483
Phillip	Edwards	99289
Chris	Garcia	77533
David	Garcia	98773
Richard	Griffin	30403
Susan	Hayes	28953
Deborah	Hernandez	90211
Diana	Hernandez	25870
Nicholas	Hernandez	84199
Sara	Hernandez	29426
Martha	Hill	23540
Kimberly	Howard	27531
Mark	Jackson	42893
Denise	Jenkins	60059
Steven	Johnson	69842
Arthur	Jones	57935
Willie	Jones	61312
Theresa	King	19403
Phyllis	Lee	52031
Craig	Lewis	25389
Gregory	Long	66863
Beverly	Martinez	85853
Katherine	Miller	43128
Justin	Mitchell	38385
Rose	Moore	45103
Kathleen	Morris	38549
Roy	Morris	40753
Carl	Murphy	19534
Ernest	Perez	19971
Timothy	Perez	78839
Victor	Perez	86093
Clarence	Peterson	32400
Mary	Powell	74194
Anne	Ramirez	44495
Jacqueline	Reed	35173
Steven	Rivera	23082
Stephen	Ross	73264
Lisa	Russell	94974
Jacqueline	Scott	70396
Lisa	Scott	65722
Rebecca	Simmons	93779
Charles	Smith	45443
Cheryl	Thompson	71284
Wanda	Thompson	49066
Clarence	Watson	85934
Gerald	Watson	55740
Amanda	White	59360
Cheryl	White	51003
Margaret	White	75146
Andrea	Wood	25328
Douglas	Wright	29009

(67 rows affected)

```

select distinct C.customerID, type, A.accNumber, balance
from Customer C
inner join Owns O ON O.customerID = C.customerID
inner join Account A ON A.accNumber = O.accNumber AND A.type <> 'BUS'
where C.customerID in(
select C2.customerID
from Customer C2
inner join Owns O2 ON O2.customerID = C2.customerID
inner join Account A2 ON A2.accNumber = O2.accNumber AND A2.type <> 'BUS'
group by C2.customerID
having count(distinct type) >= 2
)
order by customerID, type, A.accNumber

```

4.

customerID	type	accNumber	balance
11790	CHQ	24	93154.91
11790	SAV	1	118231.13
13230	CHQ	202	66850.69
13230	SAV	137	76535.96
13697	CHQ	38	82432.46
13697	CHQ	147	114094.94
13697	SAV	251	33140.30
13874	CHQ	47	19425.14
13874	CHQ	232	81180.98
13874	SAV	82	29525.31
20287	CHQ	196	47316.34
20287	CHQ	241	75723.27
20287	SAV	222	81498.87
25052	CHQ	154	66605.48
25052	CHQ	169	32880.92
25052	CHQ	172	85165.81
25052	SAV	171	94194.62
27004	CHQ	29	94087.32
27004	CHQ	33	66644.17
27004	SAV	70	33716.29
27004	SAV	96	37055.15
27954	CHQ	239	2254.01
27954	SAV	68	37748.82
29474	CHQ	293	82812.96
29474	SAV	60	53485.04
29474	SAV	85	69476.72
30525	CHQ	201	60209.26
30525	SAV	125	44498.65
30525	SAV	270	24148.47
30807	CHQ	57	82512.57
30807	CHQ	119	113473.16
30807	CHQ	231	10203.09
30807	SAV	156	41520.57
33133	CHQ	295	44516.40
33133	SAV	216	74211.19
33133	SAV	263	22682.38
33726	CHQ	132	99950.35
33726	CHQ	287	51492.52
33726	SAV	243	49766.04
33850	CHQ	204	72290.49
33850	SAV	256	72686.41
33913	CHQ	7	95358.73
33913	SAV	260	55607.43
35059	CHQ	111	70566.34
35059	CHQ	227	109916.78
35059	SAV	213	41508.56
35780	CHQ	288	51490.77
35780	SAV	217	50874.79
38351	CHQ	39	73214.41
38351	CHQ	158	83981.94
38351	SAV	95	22741.92
38351	SAV	189	67788.00
38861	CHQ	3	77231.12
38861	SAV	228	77031.07

38861	SAV	248	65919.35
41545	CHQ	102	89221.14
41545	CHQ	252	94530.03
41545	SAV	32	83408.19
44065	CHQ	109	56112.34
44065	SAV	193	20098.57
47953	CHQ	293	82812.96
47953	SAV	48	63416.35
49747	CHQ	153	50791.28
49747	SAV	142	86931.71
51850	CHQ	161	22932.00
51850	CHQ	182	29159.33
51850	SAV	35	77214.48
52189	CHQ	6	107309.23
52189	CHQ	62	36702.54
52189	CHQ	79	49404.40
52189	SAV	53	49101.06
57796	CHQ	208	39569.33
57796	SAV	99	17951.51
59366	CHQ	54	48383.18
59366	CHQ	57	82512.57
59366	CHQ	148	100187.85
59366	SAV	26	112046.36
59366	SAV	64	87815.69
59366	SAV	152	31858.67
61976	CHQ	265	19061.45
61976	SAV	235	44741.90
62312	CHQ	61	11749.75
62312	SAV	261	55402.81
63772	CHQ	90	33551.51
63772	SAV	134	37690.50
63859	CHQ	113	82792.58
63859	SAV	291	101504.47
65441	CHQ	252	94530.03
65441	SAV	181	24453.37
67384	CHQ	65	61400.10
67384	SAV	37	9421.53
67384	SAV	223	41345.93
73386	CHQ	31	111209.89
73386	CHQ	66	40008.53
73386	SAV	94	74260.98
73386	SAV	253	74761.19
73925	CHQ	184	15291.30
73925	SAV	143	27480.19
77100	CHQ	190	89691.22
77100	SAV	101	17004.14
77100	SAV	230	63379.26
77100	SAV	253	74761.19
78477	CHQ	164	101336.25
78477	SAV	9	132271.23
78477	SAV	49	87557.84
79601	CHQ	52	23848.60
79601	CHQ	75	14043.82
79601	CHQ	165	108042.83
79601	SAV	26	112046.36

79601	SAV	110	36235.58
81108	CHQ	56	97555.21
81108	CHQ	207	57012.31
81108	SAV	121	103512.78
81263	CHQ	73	27130.90
81263	CHQ	122	48725.20
81263	CHQ	157	73162.44
81263	CHQ	195	88554.16
81263	SAV	98	69297.68
82333	CHQ	266	17608.20
82333	SAV	103	90491.84
86357	CHQ	23	86557.70
86357	CHQ	81	107129.47
86357	SAV	86	50837.08
87822	CHQ	149	81508.76
87822	CHQ	277	95702.75
87822	SAV	275	95955.98
88164	CHQ	220	84329.91
88164	SAV	120	27253.21
89902	CHQ	211	94562.36
89902	SAV	48	63416.35
89902	SAV	78	72742.21
90667	CHQ	30	63355.07
90667	CHQ	226	55444.17
90667	CHQ	233	46629.30
90667	SAV	97	11797.34
90798	CHQ	13	112505.84
90798	CHQ	57	82512.57
90798	SAV	146	95876.24
92389	CHQ	100	33128.61
92389	CHQ	105	27705.29
92389	CHQ	262	82475.58
92389	SAV	72	59597.18
92389	SAV	193	20098.57
92389	SAV	268	91951.04
92389	SAV	280	45824.72
93791	CHQ	46	30235.92
93791	SAV	44	69658.25
93791	SAV	155	55474.05
98923	CHQ	163	30169.57
98923	SAV	40	72419.68
99537	CHQ	11	90343.03
99537	CHQ	100	33128.61
99537	CHQ	274	64163.66
99537	CHQ	281	80968.75
99537	SAV	243	49766.04

(155 rows affected)

```

select distinct C.customerID
from Customer C
inner join Owns O ON O.customerID = C.customerID
inner join Account A ON A.accNumber = O.accNumber
inner join Branch B ON B.branchNumber = A.branchNumber AND branchName = 'London'
where C.customerID not in (
select C2.customerID
from Customer C2
inner join Owns O2 ON O2.customerID = C2.customerID
inner join Account A2 ON A2.accNumber = O2.accNumber
inner join Branch B2 ON B2.branchNumber = A2.branchNumber AND B2.branchName = 'Moscow'
) AND C.customerID not in (
select distinct O.customerID
from Owns O
inner join Owns P ON P.accNumber = O.accNumber AND P.customerID <> O.customerID
inner join Owns PA ON PA.customerID = P.customerID AND PA.accNumber <> P.accNumber
inner join Account A ON A.accNumber = PA.accNumber
inner join Branch B ON B.branchNumber = A.branchNumber AND branchName = 'Moscow'
)
order by C.customerID

```

5.



customerID

-----

10839  
11790  
13230  
13423  
13697  
18166  
19973|  
22050  
27954  
28453  
28505  
29474  
30807  
34069  
35380  
37716  
38861  
40351  
41648  
44922  
45960  
46937  
47953  
49747  
51850  
52189  
55146  
59366  
61969  
63772  
63859  
65044  
66386  
66418  
69256  
72583  
73386  
73562  
78477  
79601  
80315  
80321  
81108  
81263  
82244  
82464  
84873  
85587  
86357  
87416  
87978  
88164  
88375  
89197  
89902  
90798  
91672  
96475  
97216  
98826  
98923

(61 rows affected)

```

select sin, firstName, salary, B.branchName
from Employee E
left join Branch B ON E.sin = B.managerSIN
where E.salary > 75000
order by salary DESC

```

6.

sin	firstName	salary	branchName
55700	Phillip	99289	London
95246	David	98773	NULL
23528	Lisa	94974	NULL
11285	Rebecca	93779	NULL
31964	Victor	90483	New York
99537	Deborah	90211	Berlin
97216	Dennis	89746	NULL
51850	Victor	87242	Latveria
38351	Victor	86093	NULL
58707	Clarence	85934	NULL
86213	Beverly	85853	NULL
79510	Nicholas	84199	NULL
30513	Timothy	78839	NULL
40900	Chris	77533	NULL
57796	Ernest	75896	NULL
28453	Margaret	75146	NULL

(16 rows affected)

```

with JT as (
  select distinct a.branchNumber
  from Customer C
  inner join Owns O on C.customerID = O.customerID
  inner join Account A on a.accNumber = O.accNumber
  where C.firstName = 'Jack' and C.lastName = 'Anderson'
)
select C2.customerId, C2.firstName, C2.lastName, C2.birthDate
from Customer C2
inner join Owns O2 on O2.customerID = C2.customerID
inner join Account A2 on A2.accNumber = O2.accNumber
inner join JT on JT.branchNumber = A2.branchNumber
group by C2.customerID, C2.firstName, C2.lastName, C2.birthDate
having count(distinct A2.branchNumber) = (select count(*) from JT)

```

7.

customerId	firstName	lastName	birthDate
25052	Jack	Anderson	1960-04-08
44922	Dennis	Flores	1953-03-14
73386	Arthur	Jones	1966-04-30
92389	Amy	Ross	1959-04-05
93300	Bonnie	Johnson	1980-06-19
93995	Kevin	Morris	1956-03-25

(6 rows affected)

```

select sin, firstName, lastName, salary
from Employee E
inner join Branch B ON E.branchNumber = B.branchNumber AND branchName = 'New York'
where salary = ALL(
select max(salary)
from Employee em
inner join Branch Br ON em.branchNumber = Br.branchNumber AND branchName = 'New York'
)
order by sin

```

8.

sin	firstName	lastName	salary
23528	Lisa	Russell	94974

(1 row affected)

```

select SUM(salary) as Total_Salary
from Employee E
inner join Branch B ON B.branchNumber = E.branchNumber AND branchName = 'London'

```

9.

Total_Salary
1106556

(1 row affected)

```

select count(distinct firstName) as Different_first_names, count(sin) as Total_Employees
from Employee E
inner join Branch B ON B.branchNumber = E.branchNumber AND branchName = 'Latveria'

```

10.

Different_first_names	Total_Employees
12	13

(1 row affected)

```
11. select branchName, min(salary) as minimumSalary, max(salary)as maximumSalary, avg(salary) as averageSalary
from Employee E
inner join Branch B ON B.branchNumber = E.branchNumber
group by branchName
order by branchName
```

branchName	minimumSalary	maximumSalary	averageSalary
Berlin	3349	90211	34714
Latveria	9491	98773	56143
London	13950	99289	50298
Moscow	12525	71284	49065
New York	10953	94974	48649

(5 rows affected)

```
12. select avg(A.income) as Average_income_above_60, avg(B.income) as Average_income_below_60
from Customer A, Customer B
where datepart(year, cast(getdate() as Date)) - datePart(year, A.birthDate) > 60.0
AND datepart(year, cast(getdate() as Date)) - datePart(year, B.birthDate) < 60.0
```

Average_income_above_60	Average_income_below_60
55256	53090

(1 row affected)

```

select C.customerID, lastName, firstName, income, avg(balance) AS average_balance
from Customer C
inner join Owns O ON C.customerID = O.customerID
inner join Account A ON A.accNumber = O.accNumber

group by C.customerID, lastName, firstName, income
having count(O.accNumber) >= 3 AND lastName like 'Jo%s%' OR firstName like 'A%[aeiou]_'
order by C.customerID

```

13.

customerID	lastName	firstName	income	average_balance
27004	Johnson	Steven	69842	54991.128000
37716	Scott	Annie	59925	66745.670000
46058	Rivera	Adam	3622	65824.380000
60959	Jones	Andrew	61289	49952.820000
61969	Henderson	Antonio	84174	31521.610000
65441	Thompson	Arthur	36915	52657.170000
73386	Jones	Arthur	57935	75060.147500
81108	Jones	Willie	61312	82408.210000
86357	Evans	Andrew	59137	81508.083333
90798	Wilson	Aaron	32312	96964.883333
93300	Johnson	Bonnie	69198	58238.172500

(11 rows affected)

```

select A.accNumber, balance, sum(amount) as Total_Transactions, balance - sum(amount) as Money_Left
from Account A
inner join Transactions T ON T.accNumber = A.accNumber
inner join Branch B ON B.branchNumber = A.branchNumber AND branchName = 'London'
group by A.accNumber, A.balance
having max(transNumber) >= 10
order by A.accNumber

```

14.

accNumber	balance	Total_Transactions	Money_Left
1	118231.13	118231.13	0.00
2	100808.03	100808.03	0.00
5	105696.04	105696.04	0.00
8	121267.54	121267.54	0.00
9	132271.23	132271.23	0.00
17	103356.07	103356.07	0.00
19	83432.52	83432.52	0.00
31	111209.89	111209.89	0.00
32	83408.19	83408.19	0.00
33	66644.17	66644.17	0.00
35	77214.48	77214.48	0.00
36	65482.68	65482.68	0.00
39	73214.41	73214.41	0.00
89	97457.14	97457.14	0.00
108	66088.83	66088.83	0.00
110	36235.58	36235.58	0.00
112	31854.76	31854.76	0.00
113	82792.58	82792.58	0.00
114	67973.27	67973.27	0.00
125	44498.65	44498.65	0.00
127	54938.10	54938.10	0.00
130	102776.09	102776.09	0.00
131	65314.36	65314.36	0.00
132	99950.35	99950.35	0.00
135	105420.87	105420.87	0.00
136	32694.57	32694.57	0.00
137	76535.96	76535.96	0.00
139	101394.11	101394.11	0.00
141	93073.14	93073.14	0.00
142	86931.71	86931.71	0.00
144	31521.61	31521.61	0.00

(31 rows affected)|