

- **What are the customer IDs, the dates, and the names of the employees who opened the accounts?**

```
SELECT a.cust_id, a.open_date, e.first_name, e.last_name
FROM accounts a INNER JOIN employees e
ON a.open_emp_id = e.emp_id;
```

cust_id	open_date	first_name	last_name
1	2007-01-01	Paula	Roberts
1	2007-10-05	Jane	Grossman
2	2009-04-25	Helen	Fleming
3	2009-05-05	Chris	Tucker
4	2009-07-10	Sarah	Parker
4	2009-12-31	Jane	Grossman
5	2010-01-01	Chris	Tucker
6	2010-03-21	Sarah	Parker
7	2010-04-13	Jane	Grossman
8	2010-06-30	Paula	Roberts
9	2010-08-25	Helen	Fleming
10	2010-11-03	Chris	Tucker
11	2010-12-01	Sarah	Parker
12	2010-12-07	Jane	Grossman
13	2010-12-10	Paula	Roberts

- **Why type of transaction, and of what amount, were performed on which accounts, of which types, on which days?**

```
SELECT t.txn_type_cd, t.amount, t.txn_date, a.account_id, a.open_date, a.product_id
FROM transactions t INNER JOIN accounts a
ON t.account_id = a.account_id;
```

txn_type_cd	amount	txn_date	account_id	open_date	product_id
credit	1000.00	2010-02-22	1	2007-01-01	CHK
credit	525.75	2010-02-23	2	2007-10-05	SAV
debit	100.00	2010-02-24	1	2007-01-01	CHK
credit	55.00	2010-02-24	3	2009-04-25	CHK
debit	50.00	2010-02-25	1	2007-01-01	CHK
debit	25.00	2010-02-25	3	2009-04-25	CHK
credit	125.37	2010-02-25	2	2007-10-05	SAV
debit	10.00	2010-02-26	3	2009-04-25	CHK
credit	75.00	2010-02-27	1	2007-01-01	CHK

- **What is the Fed ID and total balance available on all accounts (sum) by customers with at least two accounts?**

```

SELECT a.available_balance, c.fed_id, c.cust_id
FROM accounts a INNER JOIN customers c
ON a.cust_id = c.cust_id
GROUP BY c.cust_id
HAVING COUNT(*) > 1;

```

available_balance	fed_id	cust_id
1000.00	111-11-1111	1
158.00	444-44-4444	4

- **What are the account ID, customer ID, branch name, transactions (date, type, amount) for transactions on accounts that were opened after 2007-06-30?**

```

SELECT a.account_id, a.cust_id, b.branch_name, t.txn_date, t.txn_type_cd, t.amount
FROM accounts a INNER JOIN transactions t
ON a.account_id = t.account_id
INNER JOIN branches b
ON b.branch_id = a.branch_id
WHERE a.open_date > '2007-06-30';

```

account_id	cust_id	branch_name	txn_date	txn_type_cd	amount
2	1	Woburn	2010-02-23	credit	525.75
3	2	Woburn	2010-02-24	credit	55.00
3	2	Woburn	2010-02-25	debit	25.00
2	1	Woburn	2010-02-25	credit	125.37
3	2	Woburn	2010-02-26	debit	10.00

- **What accounts were opened by experienced tellers, those working since before 2010, in the Quincy branch?**

```

SELECT a.account_id, a.cust_id, a.open_date, a.product_id
FROM accounts a, branches b, employees e
WHERE a.open_emp_id = e.emp_id
AND e.start_date < '2010-01-01'
AND e.branch_id = b.branch_id
AND (e.title = 'Teller' OR e.title = 'Head Teller')
AND b.branch_name = 'Quincy';

```

account_id	cust_id	open_date	product_id
2	1	2007-10-05	SAV
6	4	2009-12-31	SAV
9	7	2010-04-13	LOC
14	12	2010-12-07	CHK
1	1	2007-01-01	CHK
10	8	2010-06-30	MM
15	13	2010-12-10	SAV

- **What employees have been working since before customer with customer ID 3 was onboarded?**

```
SELECT e.emp_id, e.first_name, e.last_name, e.start_date
FROM employees e INNER JOIN accounts a
ON e.start_date <= a.open_date
WHERE a.cust_id = 3;
```

emp_id	first_name	last_name	start_date
1	Michael	Smith	2005-01-01
2	Susan	Barker	2006-09-12
3	Robert	Tyler	2005-01-01
4	Susan	Hawthorne	2006-04-24
5	John	Gooding	2007-11-14
6	Helen	Fleming	2008-03-17
7	Chris	Tucker	2008-09-15
8	Sarah	Parker	2006-12-02
9	Jane	Grossman	2006-05-03
10	Paula	Roberts	2006-07-27

- **What are the account IDs, federal tax IDs, and total available balances for all business accounts?**

```
SELECT a.account_id, a.available_balance, c.fed_id
FROM accounts a INNER JOIN customers c
ON a.cust_id = c.cust_id
WHERE c.cust_type_cd = 'B';
```

account_id	available_balance	fed_id
12	5487.09	101-10-1010
13	10000.00	110-11-1100
14	5000.00	120-12-1212
15	3487.19	130-13-1313