\[ \Pi_{\text{cust_id}} (\text{customer}) \land \Pi_{\text{cust_id}} (\text{customer \& order}) \land \text{date \geq 24.1.2010 (order)} \]

\[ \forall c, n, b, t, c \text{ character} \land \forall o, d, e \text{ order} \rightarrow \exists l, p, q \text{ lineorder} \land l \geq 10 \]

```sql
SELECT D.dept_id, D.dept_head_id, COUNT(E.emp_id)
FROM department D, employee E
WHERE D.dept_id = E.dept_id
GROUP BY D.dept_id, D.dept_head_id
```

```sql
SELECT C.cust_id
FROM customer C
WHERE C.dept_id IN (SELECT dept_id FROM department)
AND C.cust_id = E.cust_id
AND E.emp_id = E.emp_id
```

```sql
SELECT C.cust_id, C.name
WHERE NOT EXISTS (SELECT *
FROM order O, lineorder LO, products P
WHERE O.cust_id = C.cust_id
AND LO.order_id = O.order_id
AND LO.prod_id = P.prod_id
AND prod_name LIKE '%electric%')
```