

```
-- $ID$
-- TPC-H/TPC-R Pricing Summary Report Query (Q1)
-- Functional Query Definition
-- Approved February 1998
```

```
select
    l_returnflag,
    l_linestatus,
    sum(l_quantity) as sum_qty,
    sum(l_extendedprice) as sum_base_price,
    sum(l_extendedprice * (1 - l_discount)) as sum_disc_price,
    sum(l_extendedprice * (1 - l_discount) * (1 + l_tax)) as sum_charge,
    avg(l_quantity) as avg_qty,
    avg(l_extendedprice) as avg_price,
    avg(l_discount) as avg_disc,
    count(*) as count_order
from
    lineitem
where
    l_shipdate <= '1996-01-10'
group by
    l_returnflag,
    l_linestatus
order by
    l_returnflag,
    l_linestatus;
```

```
db.lineitem.aggregate(
    [{
        "$match": {
            "shipdate": {
                "$lte": "1996-01-10"
            }
        }
    },
    {
        "$project": {
            "returnflag": 1,
            "linestatus": 1,
            "quantity": 1,
            "extendedprice": 1,
            "discount": 1,
            "l_dis_min_1": {
                "$subtract": [
                    1,
                    "$discount"
                ]
            },
            "l_tax_plus_1": {
                "$add": [
```

```

        1,
        "$tax"

    ]
}
}
}, {
    "$group": {
        "_id": {
            "RETURNFLAG": "$returnflag",
            "LINESTATUS": "$linestatus"
        },
        "sum_qty": {
            "$sum": "$quantity"
        },
        "sum_base_price": {
            "$sum": "$extendedprice"
        },
        "sum_disc_price": {
            "$sum": {
                "$multiply": [
                    "$extendedprice",
                    "$l_dis_min_1"
                ]
            }
        },
        "sum_charge": {
            "$sum": {
                "$multiply": [
                    "$extendedprice",
                    "$l_dis_min_1",
                    "$l_tax_plus_1"
                ]
            }
        },
        "avg_qty": {
            "$avg": "$quantity"
        },
        "avg_price": {
            "$avg": "$extendedprice"
        },
        "avg_disc": {
            "$avg": "$discount"
        },
        "count_order": {
            "$sum": 1
        }
    }
}, {
    "$sort": {
        "returnflag": 1,
        "linestatus": 1
    }
}

```

```
    }]  
).pretty()
```