

# IDRT Wallet Tracking & Analysis Queries

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## Comprehensive Query Guide untuk Analisis Transaksi IDRT

### 1. Query Transfer dari Wallet Tertentu

Semua transfer yang dikirim oleh wallet:

```
query GetTransfersFrom($walletAddress: Bytes!) {
  transfers(
    where: { from: $walletAddress }
    orderBy: blockTimestamp
    orderDirection: desc
    first: 100
  ) {
    id
    to
    value
    blockTimestamp
    transactionHash
    blockNumber
  }

  # Summary account info
  account(id: $walletAddress) {
    totalSent
    transferCount
    firstTransactionTimestamp
    lastTransactionTimestamp
  }
}
```

Variabel:

```
{
  "walletAddress": "0x..."
}
```

### 2. Query Transfer ke Wallet Tertentu

Semua transfer yang diterima wallet:

```
query GetTransfersTo($walletAddress: Bytes!) {
  transfers(
    where: { to: $walletAddress }
```

```

        orderBy: blockTimestamp
        orderDirection: desc
        first: 100
    ) {
        id
        from
        value
        blockTimestamp
        transactionHash
        blockNumber
    }

    # Summary account info
    account(id: $walletAddress) {
        totalReceived
        transferCount
        firstTransactionTimestamp
        lastTransactionTimestamp
    }
}

```

### 3. Query Complete Wallet Activity

**Semua aktivitas wallet (in/out):**

```

query GetWalletActivity($walletAddress: Bytes!) {
  account(id: $walletAddress) {
    id
    transferCount
    approvalCount
    totalSent
    totalReceived
    firstTransactionHash
    firstTransactionTimestamp
    lastTransactionHash
    lastTransactionTimestamp

    # Outgoing transfers
    transfersFrom(
      orderBy: blockTimestamp
      orderDirection: desc
      first: 50
    ) {
      id
      to
      value
      blockTimestamp
      transactionHash
    }
  }
}

```

```

# Incoming transfers
transfersTo(
  orderBy: blockTimestamp
  orderDirection: desc
  first: 50
) {
  id
  from
  value
  blockTimestamp
  transactionHash
}

# Approvals given
approvalsGiven(
  orderBy: blockTimestamp
  orderDirection: desc
  first: 20
) {
  id
  spender
  value
  blockTimestamp
  transactionHash
}
}
}

```

#### 4. 🍌 Query Interaksi Antar 2 Wallet

**Tracking semua transaksi antara 2 wallet specific:**

```

query GetWalletInteraction($fromWallet: Bytes!, $toWallet: Bytes!) {
  # Direct interaction A -> B
  walletInteractionA: walletInteraction(
    id: {fromWallet}-{toWallet} # Replace dengan actual addresses
  ) {
    transferCount
    totalVolume
    firstTransactionHash
    firstTransactionTimestamp
    lastTransactionHash
    lastTransactionTimestamp
  }

  # Direct interaction B -> A
  walletInteractionB: walletInteraction(
    id: {toWallet}-{fromWallet} # Replace dengan actual addresses
  ) {
    transferCount
  }
}

```

```

    totalVolume
    firstTransactionHash
    firstTransactionTimestamp
    lastTransactionHash
    lastTransactionTimestamp
  }

  # All transfers between these wallets
  transfersAtoB: transfers(
    where: {
      from: $fromWallet,
      to: $toWallet
    }
    orderBy: blockTimestamp
    orderDirection: desc
  ) {
    id
    value
    blockTimestamp
    transactionHash
  }

  transfersBtoA: transfers(
    where: {
      from: $toWallet,
      to: $fromWallet
    }
    orderBy: blockTimestamp
    orderDirection: desc
  ) {
    id
    value
    blockTimestamp
    transactionHash
  }
}

```

## 5. 💰 Query Transfer Berdasarkan Nilai

**Transfer besar (> 1 juta IDRT):**

```

query GetLargeTransfers($minAmount: BigInt!) {
  transfers(
    where: { value_gte: $minAmount }
    orderBy: value
    orderDirection: desc
    first: 100
  ) {
    id
    from

```



### Top senders berdasarkan total volume:

```
query GetTopSenders {
  accounts(
    orderBy: totalSent
    orderDirection: desc
    first: 100
    where: { totalSent_gt: "0" }
  ) {
    id
    totalSent
    transferCount
    lastTransactionTimestamp
  }
}
```

### Top receivers berdasarkan total volume:

```
query GetTopReceivers {
  accounts(
    orderBy: totalReceived
    orderDirection: desc
    first: 100
    where: { totalReceived_gt: "0" }
  ) {
    id
    totalReceived
    transferCount
    lastTransactionTimestamp
  }
}
```

## 8. 🔍 Query berdasarkan Transaction Hash

### Cari transfer berdasarkan tx hash:

```
query GetTransferByTxHash($txHash: Bytes!) {
  transfers(where: { transactionHash: $txHash }) {
    id
    from
    to
    value
    blockTimestamp
    blockNumber
    transactionHash

    fromAccount {
```

```

        id
        transferCount
        totalSent
    }

    toAccount {
        id
        transferCount
        totalReceived
    }
}
}

```

## 9. 🇮🇹 Query Daily Statistics

Volume transaksi harian:

```

query GetDailyStats($days: Int!) {
  dailyTransferSummaries(
    first: $days
    orderBy: date
    orderDirection: desc
  ) {
    date
    transferCount
    totalVolume
    uniqueSenders
    uniqueReceivers
  }
}

```

## 10. 🌐 Query Global Statistics

Overall network statistics:

```

query GetGlobalStats {
  globalStat(id: "global") {
    totalTransfers
    totalVolume
    totalAccounts
    largestTransfer
    largestTransferHash
  }
}

```

## 11. 🔗 Query Connection Pattern

Siapa saja yang pernah berinteraksi dengan wallet tertentu:

```
query GetWalletConnections($walletAddress: Bytes!) {  
  # Who this wallet sent to  
  sentTo: walletInteractions(  
    where: { from: $walletAddress }  
    orderBy: totalVolume  
    orderDirection: desc  
    first: 100  
  ) {  
    to  
    transferCount  
    totalVolume  
    lastTransactionTimestamp  
    toAccount {  
      id  
      transferCount  
    }  
  }  
  
  # Who sent to this wallet  
  receivedFrom: walletInteractions(  
    where: { to: $walletAddress }  
    orderBy: totalVolume  
    orderDirection: desc  
    first: 100  
  ) {  
    from  
    transferCount  
    totalVolume  
    lastTransactionTimestamp  
    fromAccount {  
      id  
      transferCount  
    }  
  }  
}
```

## Contoh Penggunaan JavaScript/TypeScript

```
// Example: Get wallet activity  
const query = `  
  query GetWalletActivity($walletAddress: Bytes!) {  
    account(id: $walletAddress) {  
      totalSent  
      totalReceived  
      transferCount  
      transfersFrom(first: 10, orderBy: blockTimestamp, orderDirection:  
desc) {
```



```

        to
        value
        blockTimestamp
        transactionHash
      }
    }
  }
};

const variables = {
  walletAddress: "0x998ffe1e43facffb941dc337dd0468d52ba5b48a"
};

// Using fetch
fetch('YOUR_SUBGRAPH_ENDPOINT', {
  method: 'POST',
  headers: { 'Content-Type': 'application/json' },
  body: JSON.stringify({ query, variables })
})
.then(response => response.json())
.then(data => console.log(data));

```



## Tips Penggunaan:

1. **Pagination:** Gunakan `first`, `skip` untuk pagination
2. **Filtering:** Gunakan `where` dengan berbagai kondisi
3. **Sorting:** Gunakan `orderBy` dan `orderDirection`
4. **Time Range:** Convert timestamp ke BigInt format
5. **Amount:** IDRT menggunakan 18 decimals, jadi 1 IDRT = 1000000000000000000

Dengan query-query ini, Anda bisa melakukan analisis mendalam terhadap alur transaksi IDRT, tracking wallet activity, dan mendapatkan insights yang comprehensive!