**Exhaustive List of Token Information on Solana Network**

**1. Basic Token Information:**

* **Token Name:** Full registered token name.
* **Token Symbol:** Abbreviated ticker symbol.
* **Token Address:** Public address on the Solana blockchain.
* **Decimals:** Number of decimal places the token supports.

**2. Supply Information:**

* **Total Supply:** The absolute number of tokens ever minted.
* **Circulating Supply:** Tokens available publicly, excluding locked or reserved tokens.
* **Mint Authority:** Address with the right to mint new tokens.
* **Freeze Authority:** Address able to freeze accounts, restricting transfers and trading temporarily.

**3. Authority Addresses:**

* **Mint Authority Address**
* **Update Authority Address (metadata updates)**
* **Freeze Authority Address**
* **Close Authority Address (able to close token accounts)**
* **Multisig Authorities (if applicable):** Addresses involved in multisig governance.

**4. Token Metadata (Metaplex Standard - SPL Tokens):**

* **Name**
* **Symbol**
* **URI (external metadata reference)**
* **Seller Fee Basis Points (royalty percentage for secondary sales)**
* **Creators Array (addresses and share percentages)**

**5. Account Information:**

* **Token Accounts:** Each account’s address holding the token.
* **Account Owner:** Public address owning a specific token account.
* **Delegate Address (optional):** Can transfer tokens on behalf of the owner.
* **Delegated Amount:** Number of tokens delegate can transfer.
* **Close Authority of Token Account:** Address allowed to close this account and reclaim rent.

**6. Program Information (On-chain programs interacting with the token):**

* **Token Program (SPL Token Program):** Program managing token logic (default: SPL Token program).
* **Associated Token Account Program:** Manages token accounts uniquely associated with wallet addresses.
* **Metaplex Token Metadata Program:** Manages token metadata and NFTs.

**7. Transaction & Interaction Data:**

* **Transaction IDs (TXIDs):** Historical transactions related to the token.
* **Transaction Timestamps**
* **Sender and Receiver Addresses**
* **Transaction Amounts**
* **Transaction Fees**
* **Transaction Status (confirmed, failed, pending)**

**8. Stake and Rewards Data (for staking-capable tokens):**

* **Staking Program Address**
* **Validator Addresses**
* **Stake Account Addresses**
* **Reward Rate Information**
* **Historical Rewards Distribution**

**9. Governance Information (if applicable):**

* **Governance Program Address (if using a DAO)**
* **Voting Power (token weighting)**
* **Proposals History**
* **Governance Authority Addresses**

**Exhaustive List of Wallet Information on Solana Network**

**1. Wallet Addresses and Derivation:**

* **Public Key (Address):** Wallet’s public key on Solana.
* **Associated Token Accounts (ATAs):** Token accounts automatically associated with wallet address.
* **BIP-39/BIP-44 Path:** Standard derivation path for HD wallets.

**2. Balances:**

* **SOL Balance**
* **SPL Token Balances:** Detailed list of all SPL tokens held in the wallet, including balances and token metadata.

**3. Wallet Status & Permissions:**

* **Active or Frozen Status:** Indication if wallet or its accounts are frozen by a freeze authority.
* **Delegation Permissions:** Addresses approved to spend tokens on behalf of the wallet.

**4. Delegations (Staking & Validator Delegation):**

* **Delegated Stake Amount**
* **Validator Address (if staked)**
* **Stake Account Address**
* **Earned Rewards History**

**5. Transaction History:**

* **Historical Transaction IDs**
* **Sent and Received Transactions**
* **Transaction Timestamps**
* **Transaction Amounts**
* **Transaction Status**

**6. Associated Programs:**

* **SPL Token Program:** Wallet's interaction with the SPL token program.
* **Metaplex Metadata Program:** Wallet's interaction with metadata (e.g., NFTs).
* **Stake Program:** Wallet's staking interactions.

**7. Security & Ownership:**

* **Multisig Wallet Information (if applicable):** Addresses involved in multisig wallets.
* **Hardware Wallet Integration:** Details if associated with hardware wallet devices (Ledger, Trezor).
* **Software Wallet Type:** Wallet software information (Phantom, Solflare, Exodus, etc.).

**8. NFT (Non-Fungible Token) Details:**

* **Owned NFTs (address, metadata, external URI)**
* **NFT Mint Authorities**
* **NFT Metadata Update Authorities**

**9. Authority & Governance Capabilities (if wallet is part of governance structure):**

* **Voting Power**
* **DAO Participation**
* **Authority to Propose or Execute Actions**

**Common Solana Programs & Addresses:**

* **SPL Token Program:** TokenkegQfeZyiNwAJbNbGKPFXCWuBvf9Ss623VQ5DA
* **Associated Token Account Program:** ATokenGPvR8XTeRzbbNL6nE5u65p8b16n7Zx2Rz47sX
* **Metaplex Token Metadata Program:** metaqbxxUerdq28cj1RbAWkYQm3ybzjb6a8bt518x1s

**Integration & Developer Resources:**

* **RPC Endpoints:** For interacting with Solana blockchain (https://api.mainnet-beta.solana.com, etc.).
* **Solana JSON-RPC API:** Standard for querying blockchain data (getBalance, getTokenAccountsByOwner, getSignaturesForAddress, etc.).
* **SDKs & Libraries:** Solana Web3.js SDK, Solana Web3.py SDK, Anchor Framework.