# Definicje predykatowe encji i związków

## Encje

1. USER(*IdU, Login, Password, IsAdmin, E-mail, CurrencyAmount*)
2. RULESET(*IdRS, Value, TypeOfRuleset*)
3. RULE*(IdR, Value, TypeOfRule)*
4. CRYPTO\_MODEL*(IdCM, ShortName, LongName)*
5. TRADE*(IdT, Date, Amount, Price)*
6. SOCIAL\_HISTORIC(*IdSH, GtrendsTop7D, Date*)
7. MARKET\_HISTORIC(*IdMH, BidsValue, AsksValue, AvgTransactionValue, Date, Price, ResponseJSON*)
8. CRYPTO\_WALLET*(IdCW, Amount)*

## Związki

1. IsDefinedBy(RULESET(1,1):RULE(0,N))
2. WasDoneBasedOn(TRADE(0,N):RULESET(1,1))
3. Creates(USER(1,1):RULESET(0,N))
4. DescribesMarket(MARKET\_HISTORIC(0,N):CRYPTO\_MODEL(1,1))
5. DescribesSocial(SOCIAL\_HISTORIC(0,N):CRYPTO\_MODEL(1,1))
6. HasCrypto(USER(1,1):CRYPTO\_WALLET(0,N))
7. Contains(CRYPTO\_WALLET(0,N):CRYPTO\_MODEL(1,1))
8. WasCreatedFor(RULESET(0,N):CRYPTO\_MODEL(1,1))

# Diagram obiektowo-związkowy (ERD)

# Schemat bazy danych.

Users(IdU, Login, Password, IsAdmin, EMail)

Rulesets(IdRS, #IdCM, #IdU, Name, TypeOfRuleSet)

Rules(IdR, #IdRS, Value, TypeOfRule)

CryptoModels(IdCM, ShortName, LongName)

Trades(IdT, #IdCM, #IdRS, Date, Amount, Price)

SocialHistorics(IdSH, #IdCM, GTrendsTop7D, Date)

MarketHistorics(IdMH, #IdCM, BidsValue, AsksValue, AvgTransactionValue, Date, Price, ResponseJSON)

CryptoWallets(#IdU, #IdCM, Amount)

# Transakcje

Users CRUD

CryptoModels CRUD dla administratora, R dla użytkownika

Rulesets CRUD

Rules CRUD

Trades C

SocialHistorics C

MarketHistorics C

CryptoWallets CRUD