

CryptX Documentation

Link to schema: <https://app.quickdatabasediagrams.com/#/schema/LwwYRwJHiEaMKofQYPaq7w>
CryptX DB schema

user

User of the CryptX system

Field	Description	Type	Default	Other
id		int		PK
first_name		nvarchar		
last_name		nvarchar		
email		nvarchar		
password	Hashed and salted password	nvarchar		
created_timestamp		timestamp		
reset_password_token_hash	Hash of email confirmation token that was sent to user's email	nvarchar		NULLABLE
reset_password_token_expiry	Timestamp when email confirmation token expires	timestamp		NULLABLE
is_active	True - user is active, False - user is disabled	bool		

user_session

User's session that is identified by an authentication token

Field	Description	Type	Default	Other
id		int		PK
user_id	User to whom the session belongs	int		FK
token	Bearer token which gives user access to the session	varchar		
expiry_timestamp	Time when session will expire	timestamp		
ip_address	IP address which was used to start the session	varchar		

permission

Table that contains all the permissions available in the system

Field	Description	Type	Default	Other
id	Identifier of the permission that maps it to the source code of the system	enum		FK, UNIQUE
name	User friendly name of the permission	varchar		

role

Table that contains all the roles available in the system

Field	Description	Type	Default	Other
id		int		PK
name	User friendly name of the role	varchar		

role_permission

Determines which permissions are available for users of a given role

Field	Description	Type	Default	Other
role_id		int		PK, FK
permission_id		enum		PK, FK

user_role

This table maps users to roles that are enabled for them

Field	Description	Type	Default	Other
user_id		int		FK
role_id		int		FK

instrument

Tradable instrument (symbol)

Field	Description	Type	Default	Other
id		int		PK
symbol	Symbol, e.g. BTC	nvarchar		UNIQUE
long_name	User friendly name of the symbol, e.g. Bitcoin	nvarchar		
is_base	True - if it is a base currency, False - if not	bool		
is_blacklisted	True - if blacklisted, False - if not	bool		
tick_size	Determines minimum price change of the instrument	decimal		

exchange

This table contains exchanges will be used for investing

Field	Description	Type	Default	Other
id		int		PK
name		varchar		

symbol_exchange_mapping

This table determines which instruments are available on which exchanges

Field	Description	Type	Default	Other
instrument_id		int		PK, FK
exchange_id		int		PK, FK
external_instrument_id		varchar		

exchange_account

This table defines accounts available on each exchange

Field	Description	Type	Default	Other
id		int		PK
exchange_id	Exchange on which the account is based	int		FK
instrument_id	Instrument in which account is denominated	int		FK
account_type		enum		
external_identifier	External identifier of the account, e.g. account's address	varchar		

market_history_detail

This table will contain market history retrieved from Coinmarketcap

Field	Description	Type	Default	Other
int		id		FK
timestamp	Timestamp when the information was retrieved	timestamp		
instrument_id	Instrument for which the information was retrieved	int		FK
price_usd	Price of the instrument in USD	decimal		
market_cap_usd	Total market capitalization of the instrument in USD	decimal		
daily_volume_usd	Total daily volume of the instrument in USD	decimal		
market_cap_percentage	Market cap of the instrument as percentage of total capitalization of whole market	decimal		
nvt_ratio	Network Value to Transactions ratio, measures the dollar value of cryptoasset transaction activity relative to network value	decimal		

investment_run

Investment workflow run

Field	Description	Type	Default	Other
id		int		PK
started_timestamp	Time when the run was initiated	timestamp		
updated_timestamp	Last time when the run was updated	timestamp		
completed_timestamp	Timestamp when the run was completed, e.g. reached its terminal state	timestamp		NULLABLE
amount	Total amount invested in this run	decimal		
instrument_id	Currency in which the investment was denominated	decimal		
user_created_id	User which initiated the investment run	int		FK
is_simulated	True if investment run is simulated, e.g. will not place real orders	bool		
status	Status of the investment run	enum		

action_log

Field	Description	Type	Default	Other
id	ID of the action	int		PK
timestamp	Timestamp when the action happened	timestamp		
performing_user_id	User who performed the action	int		
user_session_id	User session during which the action was performed	int		
user_id	Another user who was affected by the action	int		
permission_id	Permission which is related to the action	int		
role_id	Role which is related to the action	int		
instrument_id	Instrument which is related to the action	int		
exchange_id	Exchange which is related to the action	int		
exchange_account_id	Exchange account related to the action	int		
investment_run_id	Investment run related to the action	int		
details	More detailed information about the action	nvarchar		