

Create entities table

 No source selected DataFrame as df

```
CREATE TABLE ETF(  
    etf_ticker VARCHAR(10) PRIMARY KEY,  
    etf_name VARCHAR(30) NOT NULL,  
    inception_date DATE,  
    aum DECIMAL(15,2) CHECK (aum >= 0),  
    management_fee DECIMAL(5,2) CHECK (management_fee >= 0),  
    number_of_stocks INT CHECK (number_of_stocks > 0)  
)
```

 No source selected Query as query1

```
CREATE TABLE ETF_Category (  
    etf_ticker VARCHAR(10),  
    category_id VARCHAR(10),  
    category_name VARCHAR(30) UNIQUE NOT NULL  
    FOREIGN KEY etf_ticker REFERENCES ETF(etf_ticker),  
    PRIMARY KEY (etf_ticker,category_id)  
)
```

Error: Please select a query source.

 No source selected Query as query2

```
CREATE TABLE Fund_Family (  
    fund_id VARCHAR(10) PRIMARY KEY,  
    fund_name VARCHAR(30) NOT NULL,  
    headquarters VARCHAR(30),  
    aum DECIMAL(15,2) CHECK (aum >= 0),  
    number_of_funds INT CHECK (number_of_funds > 0)  
)
```

 No source selected Query as query3

```
CREATE TABLE Stock (  
    stock_ticker VARCHAR(10) PRIMARY KEY,  
    stock_name VARCHAR(30) NOT NULL,  
    ipo_date DATE  
    stock_sector VARCHAR(10),  
    FOREIGN KEY stock_category REFERENCES SECTOR(sector_id)  
)
```

 No source selected Query as query4

```
CREATE TABLE Sector (  
    sector_id VARCHAR(10) PRIMARY KEY,  
    sector_name VARCHAR(30) UNIQUE NOT NULL,  
    annualized_return_1yr DECIMAL(5,2),  
    annualized_return_3yr DECIMAL(5,2),  
    annualized_return_5yr DECIMAL(5,2)  
)
```

 No source selected DataFrame as df1

```
CREATE TABLE Market_Index (  
    index_ticker VARCHAR(10) PRIMARY KEY,  
    index_name VARCHAR(30) NOT NULL,  
    number_of_contributors INT CHECK (number_of_contributors > 0),  
    launch_date DATE,  
    base_value DECIMAL(10,2) CHECK (base_value > 0)  
)
```

 No source selected DataFrame as df3

```
CREATE TABLE User (  
    user_id VARCHAR(10) PRIMARY KEY,  
    user_name VARCHAR(10) UNIQUE NOT NULL,  
    user_password VARCHAR(18) NOT NULL  
)
```

 No source selected DataFrame as df2

```
CREATE TABLE Index_Category (  
  index_ticker VARCHAR(10),  
  index_category_id VARCHAR(10) NOT NULL,  
  index_category_name VARCHAR(50) NOT NULL,  
  FOREIGN KEY index_ticker REFERENCES Market_Index(index_ticker),  
  PRIMARY KEY (index_ticker, index_category_id))
```

Relationship table

 No source selected Query as query

```
CREATE TABLE Stock_in_ETF (  
  etf_ticker VARCHAR(10),  
  stock_ticker VARCHAR(10),  
  stock_weight DECIMAL(5,2) CHECK (stock_weight >0),  
  PRIMARY KEY (etf_ticker, stock_ticker),  
  FOREIGN KEY (etf_ticker) REFERENCES ETF(etf_ticker),  
  FOREIGN KEY (stock_ticker) REFERENCES Stock(stock_ticker)  
)
```

 No source selected DataFrame as df4

```
CREATE TABLE Stock_in_Sector (  
  stock_ticker VARCHAR(10) PRIMARY KEY,  
  sector_id VARCHAR(10) NOT NULL,  
  FOREIGN KEY (stock_ticker) REFERENCES Stock(stock_ticker),  
  FOREIGN KEY (sector_id) REFERENCES Sector(sector_id)  
)
```

 No source selected DataFrame as df5

```
CREATE TABLE ETF_has_Sector (  
  etf_ticker VARCHAR(10),  
  sector_id VARCHAR(10),  
  sector_weight DECIMAL(5,2) CHECK (sector_weight >0),    -- Percentage of ETF in  
this sector  
  PRIMARY KEY (etf_ticker, sector_id),  
  FOREIGN KEY (etf_ticker) REFERENCES ETF(etf_ticker),  
  FOREIGN KEY (sector_id) REFERENCES Sector(sector_id)  
)
```

 No source selected DataFrame as

```
CREATE TABLE Stock_in_Index (  
  stock_ticker VARCHAR(10),  
  index_ticker VARCHAR(10),  
  weight DECIMAL(5,2) CHECK (weight > 0),  
  PRIMARY KEY (stock_ticker, index_ticker),  
  FOREIGN KEY (stock_ticker) REFERENCES Stock(stock_ticker),  
  FOREIGN KEY (index_ticker) REFERENCES Market_Index(index_ticker)  
)
```

 No source selected DataFrame as

```
CREATE TABLE User_interest ETF(  
  user_id VARCHAR(10),  
  etf_id VARCHAR(10),  
  PRIMARY KEY (user_id, etf_id),  
  FOREIGN KEY user_id REFERENCES User(user_id),  
  FOREIGN KEY etf_id REFERENCES ETF(etf_id)  
)
```

 No source selected DataFrame as

```
CREATE TABLE Fund_has ETF(  
  etf_id VARCHAR(10) PRIMARY KEY,  
  fund_id VARCHAR(10) NOT NULL,  
  FOREIGN KEY fund_id REFERENCES Fund_Family(fund_id))
```