Neo4j - Graph database

Neo4j

https://neo4j.com/product/graph-data-science/

<https://neo4j.com/case-studies/fortune-500-financial-services/>

Relational databases

Relational

Keywords - Entity, row, column

Q’s

What do we wish to keep track of - ROW - Entity

What facts about each thing do we need to record - COLUMN - Attributes

Each instance must be UNIQUELY identified - Key (primary, secondary)

SQL

DDL- Data Description Language

DML- Data Manipulation Language

livesql.oracle.com

CREATE TABLE stock

(

shrcode CHAR(3),

shrfirm VARCHAR(20) NOT NULL,

shrprice DECIMAL(6,2),

shrquantity DECIMAL(8),

shrdividend DECIMAL(5,2),

shrpe DECIMAL(2),

PRIMARY KEY (shrcode)

);

INSERT INTO stock (shrcode,shrfirm,shrprice,shrquantity,shrdividend,shrpe) VALUES ('FC','Freedonia Copper',27.5,10529,1.84,16);

INSERT INTO stock (shrcode,shrfirm,shrprice,shrquantity,shrdividend,shrpe) VALUES ('PT','Patagonian Tea',55.25,12635,2.50,10);

INSERT INTO stock (shrcode,shrfirm,shrprice,shrquantity,shrdividend,shrpe) VALUES ('ROF','Royal Ostrich Farms',33.75,1234923,3.00,6);

INSERT INTO stock (shrcode,shrfirm,shrprice,shrquantity,shrdividend,shrpe) VALUES ('PO','Parachute',10,1234,3.00,6);

SELECT \* from stock;

SELECT shrfirm,shrprice from stock;

SELECT shrfirm AS COMPANY,shrprice AS PRICE from stock;

SELECT shrfirm,shrprice from stock WHERE shrprice>20;

UPDATE stock SET shrdividend=4,shrpe=5 WHERE (shrcode='PO');

DELETE from stock WHERE (shrcode='RO');