1. **Table: petrolprice**

* **date (TIMESTAMP NOT NULL)**
* **solarprice (FLOAT NOT NULL)**
* **petrol80price (FLOAT NOT NULL)**
* **petrol92price (FLOAT NOT NULL)**
* **petrol95price (FLOAT NOT NULL)**

1. **Table: dailyPumpshift**

* **id (INT NOT NULL AUTO\_INCREMENT)**
* **date (TIMESTAMP NOT NULL)**
* **pumpNumber (INT NOT NULL)**
* **petrolType (VARCHAR(255) NOT NULL)**
* **start\_code (FLOAT NOT NULL)**
* **end\_code (FLOAT NOT NULL)**

1. **View: dailyPumpshift\_liter**

* **id**
* **date**
* **pumpNumber**
* **petrolType**
* **start\_code**
* **end\_code**
* **total\_liter**

1. **Table: oil**

* **oilName (VARCHAR(255) NOT NULL)**
* **price (FLOAT)**

1. **Table: oilshift**

* **date (TIMESTAMP NOT NULL)**
* **StartTermBalance (FLOAT)**
* **endTermBalance (FLOAT)**
* **sold (INT NOT NULL)**
* **price (FLOAT)**
* **oilname (VARCHAR(255) NOT NULL)**

1. **View: totalprofit\_view**

* **StartTermBalance**
* **endTermBalance**
* **inbound**
* **sold**
* **price**
* **oilname**
* **total\_profit**

1. **Table: OilStorage**

* **date (TIMESTAMP NOT NULL)**
* **beginingBalance (FLOAT)**
* **endingBalance (FLOAT)**
* **inboundtowarehouse (VARCHAR(255))**
* **oilname (VARCHAR(255) NOT NULL)**

1. **Table: expenses**

* **id (INT NOT NULL AUTO\_INCREMENT)**
* **date (TIMESTAMP NOT NULL)**
* **bond (VARCHAR(255) NOT NULL)**
* **Amount (FLOAT NOT NULL)**

1. **Table: coupons**

* **id (INT NOT NULL AUTO\_INCREMENT)**
* **date (TIMESTAMP NOT NULL)**
* **petrolType (VARCHAR(255) NOT NULL)**
* **Issuer (VARCHAR(255) NOT NULL)**
* **category (INT NOT NULL)**
* **price (FLOAT)**
* **total (FLOAT)**
* **couponserial (VARCHAR(255) NOT NULL)**

1. **Table: matchingcoupons**

* **date (TIMESTAMP NOT NULL)**
* **Quantity (INT NOT NULL)**
* **petrolType (VARCHAR(255) NOT NULL)**
* **issuer (VARCHAR(255) NOT NULL)**
* **category (INT NOT NULL)**
* **total (FLOAT)**

1. **Table: customer**

* **name (VARCHAR(255) NOT NULL)**
* **national\_ID (VARCHAR(255) NOT NULL)**
* **phone\_number (VARCHAR(255) NOT NULL)**

1. **Table: creditCustomer**

* **id (INT NOT NULL AUTO\_INCREMENT)**
* **date (TIMESTAMP NOT NULL)**
* **customer\_NID (VARCHAR(255) NOT NULL)**
* **bond (VARCHAR(255) NOT NULL)**
* **Amount (FLOAT)**

1. **Table: statement**

* **name (VARCHAR(255) NOT NULL)**
* **Table: CashMovement**
* **id (INT NOT NULL AUTO\_INCREMENT)**
* **type (ENUM('مقبوضات', 'مدفوعات') NOT NULL)**
* **date (TIMESTAMP NOT NULL)**
* **bond (VARCHAR(255) NOT NULL)**
* **Amount (FLOAT)**

1. **Table: CM\_has\_S**

* **id\_cm (INT NOT NULL)**
* **name\_S (VARCHAR(255) NOT NULL)**

1. **Table: Employee**

* **id (INT AUTO\_INCREMENT)**
* **name (VARCHAR(255) NOT NULL)**
* **nationalID (VARCHAR(255) NOT NULL)**
* **phoneNumber (VARCHAR(255) NOT NULL)**
* **job (VARCHAR(255) NOT NULL)**
* **salary (FLOAT NOT NULL)**

1. **Table: UserAccount**

* **UserName (VARCHAR(255) NOT NULL)**
* **Password (VARCHAR(255) NOT NULL)**
* **Role (VARCHAR(255) NOT NULL)**

1. **Table: loginHistory**

* **id (INT AUTO\_INCREMENT)**
* **date (TIMESTAMP NOT NULL)**
* **time (TIME NOT NULL)**
* **softwareType (VARCHAR(255) NOT NULL)**

1. **Table: userA\_has\_loginHistory**

* **User\_Name (VARCHAR(255) NOT NULL)**
* **h\_id (INT NOT NULL)**

1. **Table: SystemActivity**

* **id (INT AUTO\_INCREMENT)**
* **date (TIMESTAMP NOT NULL)**
* **ModDate (TIMESTAMP NOT NULL)**
* **time (TIME NOT NULL)**
* **Activity (VARCHAR(255) NOT NULL)**
* **softwareType (VARCHAR(255) NOT NULL)**

1. **Table: UserA\_Has\_SActivity**

* **UserName (VARCHAR(255) NOT NULL)**
* **a\_id (INT NOT NULL)**

**tables & views code**

**CREATE TABLE petrolprice(**

**date TIMESTAMP NOT NULL,**

**solarprice float NOT NULL,**

**petrol80price float NOT NULL,**

**petrol92price float NOT NULL,**

**petrol95price float NOT NULL,**

**CONSTRAINT PRIMARY KEY (date)**

**);**

**--**

**CREATE TABLE dailyPumpshift(**

**id INT NOT NULL AUTO\_INCREMENT,**

**date TIMESTAMP NOT NULL,**

**pumpNumber INT NOT NULL,**

**petrolType Varchar(255) NOT NULL,**

**start\_code Float NOT NULL,**

**end\_code float NOt NULL,**

**primary key (id)**

**);**

**--**

**CREATE VIEW dailyPumpshift\_liter AS**

**SELECT**

**id,**

**date,**

**pumpNumber,**

**petrolType,**

**start\_code,**

**end\_code,**

**(start\_code - end\_code) AS total\_liter**

**FROM**

**dailyPumpshift;**

**--**

**CREATE TABLE oil (**

**oilName VARCHAR(255) NOT NULL,**

**price float,**

**primary key (oilName)**

**);**

**--**

**CREATE TABLE oilshift(**

**date TIMESTAMP NOT NULL,**

**StartTermBalance float ,**

**endTermBalance float ,**

**sold INT NOT NULL,**

**price float ,**

**oilname VARCHAR(255) NOT NULL,**

**FOREIGN KEY (oilname) REFERENCES oil(oilName)**

**);**

**--**

**CREATE VIEW totalprofit\_view AS**

**SELECT**

**StartTermBalance,**

**endTermBalance,**

**inbound,**

**sold,**

**price,**

**oilname,**

**(StartTermBalance - endTermBalance) AS total\_profit**

**FROM**

**oilshift;**

**--**

**CREATE TABLE OilStorage(**

**date TIMESTAMP NOT NULL,**

**beginingBalance float,**

**endingBalance float,**

**inboundtowarehouse VARCHAR(255),**

**oilname VARCHAR(255) NOT NULL,**

**FOREIGN KEY (oilname) REFERENCES oil(oilName)**

**);**

**--**

**CREATE TABLE expenses(**

**id INT NOT NULL AUTO\_INCREMENT,**

**date TIMESTAMP NOT NULL,**

**bond VARCHAR(255) NOT NULL,**

**Amount float NOT NULL,**

**CONSTRAINT PRIMARY KEY (id)**

**);**

**--**

**CREATE TABLE coupons(**

**id INT NOT NULL AUTO\_INCREMENT,**

**date TIMESTAMP NOT NULL,**

**petrolType VARCHAR(255) NOT NULL,**

**Issuer VARCHAR(255) NOT NULL,**

**category INT NOT NULL,**

**price float ,**

**total float,**

**couponserial VARCHAR(255) NOT NULL,**

**PRIMARY KEY (id)**

**);**

**--**

**CREATE TABLE matchingcoupons(**

**date TIMESTAMP NOT NULL,**

**Quantity INT NOT NULL,**

**petrolType VARCHAR(255) NOT NULL,**

**issuer VARCHAR(255) NOT NULL,**

**category INT NOT NULL,**

**total float**

**);**

**--**

**CREATE TABLE customer(**

**name varchar(255) not NULL,**

**national\_ID varchar(255) NOT NULL,**

**phone\_number varchar(255) NOT NULL,**

**PRIMARY KEY (national\_ID)**

**);**

**--**

**CREATE TABLE creditCustomer(**

**id INT NOT NULL AUTO\_INCREMENT,**

**date TIMESTAMP NOT NULL,**

**customer\_NID varchar(255) NOT NULL,**

**bond varchar(255) NOT NULL,**

**Amount float,**

**CONSTRAINT PRIMARY KEY (id),**

**CONSTRAINT fk\_customer\_nid FOREIGN KEY (customer\_NID) REFERENCES customer(national\_ID)**

**);**

**--**

**CREATE TABLE statement(**

**name varchar(255) not null,**

**Primary key(name)**

**);**

**--**

**CREATE TABLE CashMovement(**

**id INT NOT NULL AUTO\_INCREMENT,**

**type ENUM('مقبوضات', 'مدفوعات') NOT NULL,**

**date TIMESTAMP NOT NULL,**

**bond varchar(255) NOT NULL,**

**Amount float,**

**PRIMARY KEY (id)**

**);**

**--**

**CREATE TABLE CM\_has\_S(**

**id\_cm INT NOT NULL,**

**name\_S varchar(255) not null,**

**FOREIGN KEY (id\_cm) REFERENCES CashMovement(id),**

**FOREIGN KEY (name\_S) REFERENCES statement(name)**

**);**

**--**

**CREATE TABLE Employee(**

**id INT AUTO\_INCREMENT,**

**name varchar(255) NOT NULL,**

**nationalID varchar(255) NOT NULL,**

**phoneNumber varchar(255) NOT NULL,**

**job varchar(255) NOT NULL,**

**salary Float not NULL,**

**CONSTRAINT PRIMARY KEY (id)**

**);**

**-- start the id from 100**

**ALTER TABLE Employee AUTO\_INCREMENT = 100;**

**--**

**CREATE TABLE UserAccount (**

**UserName VARCHAR(255) NOT NULL,**

**Password VARCHAR(255) NOT NULL,**

**Role VARCHAR(255) NOT NULL,**

**PRIMARY KEY (UserName)**

**);**

**--**

**CREATE TABLE loginHistory(**

**id INT AUTO\_INCREMENT,**

**date TIMESTAMP NOT NULL,**

**time TIME NOT NULL,**

**softwareType VARCHAR(255) NOT NULL,**

**PRIMARY KEY (id)**

**);**

**--**

**CREATE TABLE userA\_has\_loginHistory (**

**User\_Name VARCHAR(255) NOT NULL,**

**h\_id INT NOT NULL,**

**FOREIGN KEY (User\_Name) REFERENCES UserAccount(UserName),**

**FOREIGN KEY (h\_id) REFERENCES loginHistory(id)**

**);**

**--**

**CREATE TABLE SystemActivity (**

**id INT AUTO\_INCREMENT,**

**date TIMESTAMP NOT NULL,**

**ModDate TIMESTAMP NOT NULL,**

**time TIME NOT NULL,**

**Activity VARCHAR(255) NOT NULL,**

**softwareType VARCHAR(255) NOT NULL,**

**PRIMARY KEY (id)**

**);**

**--**

**CREATE TABLE UserA\_Has\_SActivity (**

**UserName VARCHAR(255) NOT NULL,**

**a\_id INT NOT NULL,**

**FOREIGN KEY (UserName) REFERENCES UserAccount(UserName),**

**FOREIGN KEY (a\_id) REFERENCES SystemActivity(id)**

**);**