

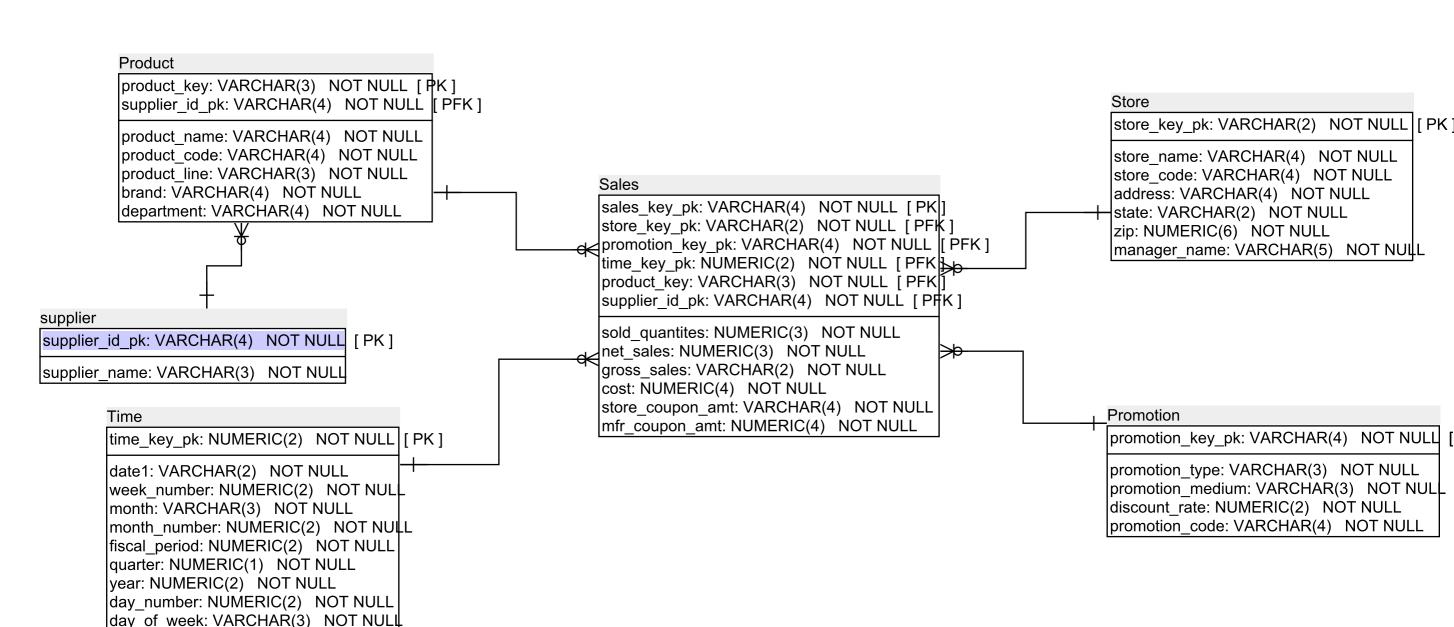
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CREATE TABLE Promotion (
                promotion_key_pk VARCHAR2(4) NOT NULL,
                promotion type VARCHAR2(3) NOT NULL,
                promotion medium VARCHAR2(3) NOT NULL,
                discount rate NUMBER(2) NOT NULL,
                promotion code VARCHAR2(4) NOT NULL,
                CONSTRAINT PROMOTION KEY PK PRIMARY KEY
(promotion key pk)
);
CREATE TABLE Store (
                store key pk VARCHAR2(2) NOT NULL,
                store name VARCHAR2(4) NOT NULL,
                store code VARCHAR2(4) NOT NULL,
                address VARCHAR2(4) NOT NULL,
                state VARCHAR2(2) NOT NULL,
                zip NUMBER(6) NOT NULL,
                manager name VARCHAR2(5) NOT NULL,
                CONSTRAINT STORE KEY PK PRIMARY KEY (store key pk)
);
CREATE TABLE Product (
                product key pk VARCHAR2(3) NOT NULL,
                product name VARCHAR2(4) NOT NULL,
                product code VARCHAR2(4) NOT NULL,
                product line VARCHAR2(3) NOT NULL,
                brand VARCHAR2(4) NOT NULL,
                department VARCHAR2 (4) NOT NULL,
                CONSTRAINT PRODUCT KEY PK PRIMARY KEY (product key pk)
);
CREATE TABLE Time (
                time_key_pk NUMBER(2) NOT NULL,
                date1 VARCHAR2(2) NOT NULL,
                week number NUMBER(2) NOT NULL,
                month VARCHAR2(3) NOT NULL,
                month number NUMBER(2) NOT NULL,
                fiscal period NUMBER(2) NOT NULL,
                quarter NUMBER(1) NOT NULL,
                year NUMBER(2) NOT NULL,
                day_number NUMBER(2) NOT NULL,
                day_of_week VARCHAR2(3) NOT NULL,
                CONSTRAINT TIME1 PK PRIMARY KEY (time key pk)
);
CREATE TABLE Sales (
                sales_key_pk VARCHAR2(4) NOT NULL,
                store_key_pk VARCHAR2(2) NOT NULL,
                promotion_key_pk VARCHAR2(4) NOT NULL,
                time key pk NUMBER(2) NOT NULL,
                product key VARCHAR2(3) NOT NULL,
                sold quantites NUMBER(3) NOT NULL,
                net sales NUMBER(3) NOT NULL,
                gross sales VARCHAR2(2) NOT NULL,
                cost NUMBER(4) NOT NULL,
```

ALTER TABLE Sales ADD CONSTRAINT PROMOTION_SALES_FK FOREIGN KEY (promotion_key_pk)
REFERENCES Promotion (promotion_key_pk)
NOT DEFERRABLE;

ALTER TABLE Sales ADD CONSTRAINT STORE_SALES_FK FOREIGN KEY (store_key_pk) REFERENCES Store (store_key_pk) NOT DEFERRABLE;

ALTER TABLE Sales ADD CONSTRAINT PRODUCT_SALES_FK FOREIGN KEY (product_key)
REFERENCES Product (product_key_pk)
NOT DEFERRABLE;

ALTER TABLE Sales ADD CONSTRAINT TIME_SALES_FK FOREIGN KEY (time_key_pk)
REFERENCES Time (time_key_pk)
NOT DEFERRABLE;



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CREATE TABLE supplier (
                supplier_id_pk VARCHAR2(4) NOT NULL,
                supplier name VARCHAR2(3) NOT NULL,
                CONSTRAINT SUPPLIER PK PRIMARY KEY (supplier id pk)
);
CREATE TABLE Promotion (
                promotion key pk VARCHAR2(4) NOT NULL,
                promotion type VARCHAR2(3) NOT NULL,
                promotion medium VARCHAR2(3) NOT NULL,
                discount rate NUMBER(2) NOT NULL,
                promotion code VARCHAR2(4) NOT NULL,
                CONSTRAINT PROMOTION KEY PK PRIMARY KEY
(promotion key pk)
);
CREATE TABLE Store (
                store_key_pk VARCHAR2(2) NOT NULL,
                store name VARCHAR2(4) NOT NULL,
                store code VARCHAR2(4) NOT NULL,
                address VARCHAR2(4) NOT NULL,
                state VARCHAR2(2) NOT NULL,
                zip NUMBER(6) NOT NULL,
                manager name VARCHAR2(5) NOT NULL,
                CONSTRAINT STORE KEY PK PRIMARY KEY (store key pk)
);
CREATE TABLE Product (
                product key pk VARCHAR2(3) NOT NULL,
                supplier id pk VARCHAR2(4) NOT NULL,
                product name VARCHAR2(4) NOT NULL,
                product code VARCHAR2(4) NOT NULL,
                product_line VARCHAR2(3) NOT NULL,
                brand VARCHAR2(4) NOT NULL,
                department VARCHAR2(4) NOT NULL,
                CONSTRAINT PRODUCT KEY PK PRIMARY KEY (product key pk,
supplier id pk)
);
CREATE TABLE Time (
                time_key_pk NUMBER(2) NOT NULL,
                date1 VARCHAR2(2) NOT NULL,
                week number NUMBER(2) NOT NULL,
                month VARCHAR2(3) NOT NULL,
                month number NUMBER(2) NOT NULL,
                fiscal period NUMBER(2) NOT NULL,
                quarter NUMBER(1) NOT NULL,
                year NUMBER(2) NOT NULL,
                day number NUMBER(2) NOT NULL,
                day of week VARCHAR2(3) NOT NULL,
                CONSTRAINT TIME1 PK PRIMARY KEY (time key pk)
);
CREATE TABLE Sales (
```

sales_key_pk VARCHAR2(4) NOT NULL,
store_key_pk VARCHAR2(2) NOT NULL,
promotion_key_pk VARCHAR2(4) NOT NULL,
time_key_pk NUMBER(2) NOT NULL,
product_key VARCHAR2(3) NOT NULL,
supplier_id_pk VARCHAR2(4) NOT NULL,
sold_quantites NUMBER(3) NOT NULL,
net_sales NUMBER(3) NOT NULL,
gross_sales VARCHAR2(2) NOT NULL,
cost NUMBER(4) NOT NULL,
store_coupon_amt VARCHAR2(4) NOT NULL,
mfr_coupon_amt VARCHAR2(4) NOT NULL,
CONSTRAINT SALES_PK PRIMARY KEY (sales_key_pk,
store_key_pk, promotion_key_pk, time_key_pk, product_key, supplier_id_pk));

ALTER TABLE Product ADD CONSTRAINT SUPPLIER_PRODUCT_FK FOREIGN KEY (supplier_id_pk)
REFERENCES supplier (supplier_id_pk)
NOT DEFERRABLE;

ALTER TABLE Sales ADD CONSTRAINT PROMOTION_SALES_FK FOREIGN KEY (promotion_key_pk)
REFERENCES Promotion (promotion_key_pk)
NOT DEFERRABLE;

ALTER TABLE Sales ADD CONSTRAINT STORE_SALES_FK FOREIGN KEY (store_key_pk)
REFERENCES Store (store_key_pk)
NOT DEFERRABLE;

ALTER TABLE Sales ADD CONSTRAINT PRODUCT_SALES_FK FOREIGN KEY (product_key, supplier_id_pk) REFERENCES Product (product_key_pk, supplier_id_pk) NOT DEFERRABLE;

ALTER TABLE Sales ADD CONSTRAINT TIME_SALES_FK FOREIGN KEY (time_key_pk)
REFERENCES Time (time_key_pk)
NOT DEFERRABLE;