CREATE table Time\_dw

( time\_id int PRIMARY KEY,

day DATE NOT NULL,

month varchar(255) NOT NULL,

qt varchar(255) NOT NULL,

yr varchar(255) NOT NULL);

INSERT INTO Time\_dw(time\_id,day, month,qt,yr)

VALUES (101, '2021-01-17', 'january', 'Q1','2021');

INSERT INTO Time\_dw(time\_id, day, month,qt,yr)

VALUES (102, '2021-02-14', 'february', 'Q1','2021');

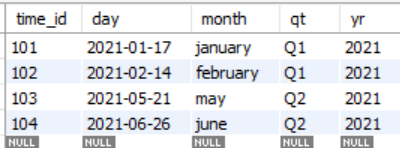
INSERT INTO Time\_dw(time\_id, day, month,qt,yr)

VALUES (103, '2021-05-21', 'may', 'Q2','2021');

INSERT INTO Time\_dw (time\_id, day, month,qt,yr)

VALUES (104, '2021-06-26', 'june', 'Q2','2021');

select \* from Time\_dw;



CREATE table Product\_dw

( prod\_id int PRIMARY KEY,

Prod\_name varchar(60) NOT NULL,

Prod\_category varchar(255) NOT NULL,

Brand\_name varchar(255) NOT NULL,

Suppl\_name varchar(255) NOT NULL,

Prod\_price int );

INSERT INTO product\_dw(prod\_id,Prod\_name,Prod\_category,Brand\_name, Suppl\_name,Prod\_price)

VALUES (1, 'rice', 'grocery', 'Dawat','Ramesh',140 );

INSERT INTO product\_dw(prod\_id,Prod\_name,Prod\_category,Brand\_name, Suppl\_name,Prod\_price)

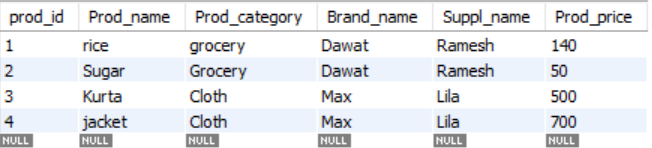
VALUES (2, 'Sugar', 'Grocery', 'Dawat','Ramesh',50 );

INSERT INTO Product\_dw (prod\_id,Prod\_name,Prod\_category,Brand\_name, Suppl\_name, Prod\_price)VALUES (3, 'Kurta', 'Cloth', 'Max','Lila',500 );

INSERT INTO product\_dw(prod\_id,Prod\_name,Prod\_category,Brand\_name, Suppl\_name,Prod\_price)

VALUES (4, 'jacket', 'Cloth', 'Max','Lila',700 );

select \* from product\_dw



CREATE table Location\_dw

(loc\_id int PRIMARY KEY,

street varchar(60) NOT NULL,

city varchar(255) NOT NULL,

state varchar(255) NOT NULL,

country varchar(255) NOT NULL);

INSERT INTO Location\_dw(loc\_id,street,city,state,country)

VALUES (201,'MLROAD','MUMBAI','MAHARASHTRA','INDIA');

INSERT INTO Location\_dw(loc\_id,street,city,state,country)

VALUES (202,'AIROAD','MUMBAI','MAHARASHTRA','INDIA');

INSERT INTO Location\_dw(loc\_id,street,city,state,country)

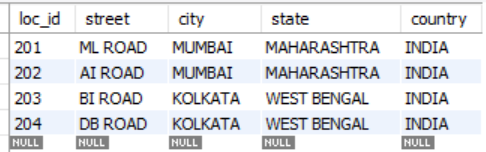
VALUES

(203,'BIROAD','KOLKATA','WESTBENGAL','INDIA');

INSERT INTO Location\_dw(loc\_id,street,city,state,country)

VALUES (204,'DB ROAD','KOLKATA','WESTBENGAL','INDIA');

select \* from Location\_dw;



CREATE table Fact\_sales

(prod\_id int REFERENCES Product\_dw(prod\_id),

time\_id int REFERENCES Time\_dw(time\_id),

loc\_id int REFERENCES Location\_dw(loc\_id),

number\_of\_unit\_sold int NOT NULL,

Total\_sales int NOT NULL);

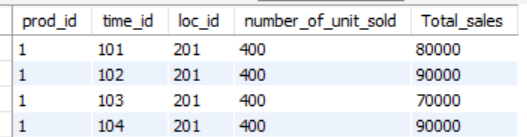
INSERT INTO Fact\_sales

(prod\_id,time\_id,loc\_id,number\_of\_unit\_sold,Total\_sales)

VALUES (1,104,201,400,90000);

fact\_sales

select \* from Fact\_sales;



**Roll Up**

SELECT yr, SUM(total\_sales)

FROM (Fact\_sales NATURAL JOIN Product\_dw)

JOIN

Time\_dw ON Fact\_sales.time\_id=Time\_dw.time\_id

GROUP BY yr;

**OR**

Select Time\_dw.yr, sum(total\_sales)

From Fact\_sales

JOIN Product\_dw ON

Fact\_sales.product\_id = Product\_dw.product\_id

JOIN Time\_dw ON fact\_sales.time\_id= time\_dw.time\_id

Group by time\_dw.yr;

Or

Select time.yr, sum(total\_sales)

From sales

JOIN product ON

sales.prod\_id = product.prod\_id

JOIN time ON sales.time\_id= time.time\_id

Group by time.yr;



**Drill Down**

SELECT time\_dw.qt,SUM(total\_sales)

FROM (Fact\_sales NATURAL JOIN Product\_dw)

JOIN Time\_dw ON Fact\_sales.time\_id=Time\_dw.time\_id

GROUP BY time\_dw.qt;

OR

Select time\_dw.qt,sum(total\_sales)

From Fact\_sales JOIN Product\_dw

ON Fact\_sales.product\_id = Product\_dw.product\_id

JOIN Time\_dw ON fact\_sales.time\_id= time\_dw.time\_id

Group by time\_dw.qt;

OR

Select time\_dw.qt,sum(total\_sales)

From sales\_fact JOIN Product\_dw

ON sales\_fact.product\_id = Product\_dw.product\_id

JOIN Time\_dw ON sales\_fact.time\_id= time\_dw.time\_id

Group by time\_dw.qt;

Or

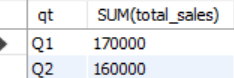
Select time.qt,sum(total\_sales)

From sales JOIN product

ON sales.prod\_id = product.prod\_id

JOIN time ON sales.time\_id= time.time\_id

Group by time.qt;



**Pivot**

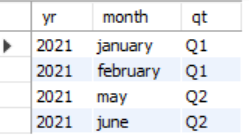
SELECT yr, month,qt

FROM Time\_dw as source\_table

**Or**

SELECT yr, month,qt

FROM time as source\_table



**Slice**

SELECT Prod\_name ,Total\_sales

FROM Fact\_sales

INNER JOIN Product\_dw

ON Fact\_sales.prod\_id=Product\_dw.prod\_id

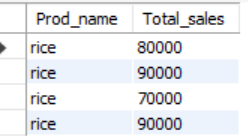
or

SELECT prod\_name ,total\_sales

FROM sales

INNER JOIN product

ON sales.prod\_id=Product.prod\_id



**DICE**

SELECT Prod\_name ,Total\_sales ,day

FROM ((Fact\_sales

INNER JOIN Product\_dw

ON Fact\_sales.prod\_id =Product\_dw.prod\_id) JOIN Time\_dw

ON Fact\_sales.time\_id =Time\_dw.time\_id)

Or

SELECT Product\_name ,total\_sales ,day

FROM ((sales\_fact

INNER JOIN product\_dw

ON sales\_fact.product\_id =product\_dw.product\_id) JOIN Time\_dw

ON sales\_fact.time\_id =Time\_dw.time\_id)

Or

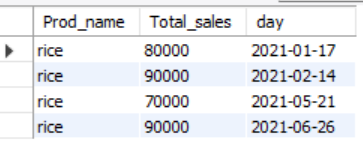
SELECT prod\_name ,total\_sales ,day

FROM ((sales

INNER JOIN product

ON sales.prod\_id =product.prod\_id) JOIN time

ON sales.time\_id =time.time\_id)

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