Live SQL

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Statement 1

✏️ ▷ 🗑️

```
CREATE TABLE Time_dw (

time_id INT PRIMARY KEY,

quarter INT,

day INT ,

month char(40),

year INT

)


CREATE TABLE Branch (

branch_id INT PRIMARY KEY,

name char(50),

state char(50),

country char(50)

)


CREATE TABLE Location (

location_id INT PRIMARY KEY,

CITY CHAR(50),

state char(50),

country char(50)

)


CREATE TABLE Product (

product_id INT PRIMARY KEY,

quantity INT,

price INT,

model_number INT,

type VARCHAR(50),

name VARCHAR(100)

)
```

```
create table Sales_Fact (

sales_id INT PRIMARY KEY,

time_id INT,

product_id INT,

branch_id INT,

location_id INT,

quantity INT,

sales_amount DECIMAL(10,2),

revenue DECIMAL(10,2),

FOREIGN KEY (time_id) REFERENCES Time_dw(time_id),

FOREIGN KEY (product_id) REFERENCES Product(product_id),

FOREIGN KEY (branch_id) REFERENCES Branch(branch_id),

FOREIGN KEY (location_id) REFERENCES Location(location_id)

)
```

ORA-00922: missing or invalid option

More Details: https://docs.oracle.com/error-help/db/ora-00922

Statement 2

✎ ▷ 🗑

```
CREATE TABLE Time_dw (

time_id INT PRIMARY KEY,

quarter INT,

day INT ,

month char(40),

year INT

)
```

Table created.

Statement 3

✎ ▷ 🗑

```
CREATE TABLE Branch (

branch_id INT PRIMARY KEY,

name char(50),

state char(50),

country char(50)

)
```

Table created.

Statement **4**

[✎] [▷] [🗑]

```
CREATE TABLE Location (
location_id INT PRIMARY KEY,
CITY CHAR(50),
state char(50),
country char(50)
)
```

Table created.

Statement **5**

[✎] [▷] [🗑]

```
CREATE TABLE Product (
product_id INT PRIMARY KEY,
quantity INT,
price INT,
model_number INT,
type VARCHAR(50),
name VARCHAR(100)
)
```

Table created.

Statement **6**

[✎] [▷] [🗑]

```
create table Sales_Fact (
sales_id INT PRIMARY KEY,
time_id INT,
product_id INT,
branch_id INT,
location_id INT,
quantity INT,
sales_amount DECIMAL(10,2),
revenue DECIMAL(10,2),
FOREIGN KEY (time_id) REFERENCES Time_dw(time_id),
FOREIGN KEY (product_id) REFERENCES Product(product_id),
FOREIGN KEY (branch_id) REFERENCES Branch(branch_id),
FOREIGN KEY (location_id) REFERENCES Location(location_id)
)
```

Table created.

Statement **7**	
✎ ▷ 🗑	INSERT INTO Time_dw VALUES (1, 1, 5, 'January', 2025) 1 row(s) inserted.

Statement **8**	
✎ ▷ 🗑	INSERT INTO Time_dw VALUES (2, 2, 7, 'May', 2025) 1 row(s) inserted.

Statement **9**	
✎ ▷ 🗑	INSERT INTO Time_dw VALUES (3, 1, 18, 'March', 2025) 1 row(s) inserted.

Statement **10**	
✎ ▷ 🗑	INSERT INTO Time_dw VALUES (4, 1, 14, 'February', 2025) 1 row(s) inserted.

Statement **11**	
✎ ▷ 🗑	INSERT INTO Time_dw VALUES (5 , 2, 1, 'June', 2025) 1 row(s) inserted.

Statement **12**	
✎ ▷ 🗑	INSERT INTO product VALUES (1, 10, 80000, 105, 'Electronics - Gadgets', 'Tablet') 1 row(s) inserted.

Statement **13**	
✎ ▷ 🗑	INSERT INTO product VALUES (2, 12, 1700, 105, 'Electronics - wearables', 'smartwatch') 1 row(s) inserted.

Statement **14**	
✎ ▷ 🗑	INSERT INTO product VALUES (3, 16, 12000, 105, 'Electronics - Gadgets', 'Tablet')

1 row(s) inserted.

Statement **15**

✎ ▷ 🗑

INSERT INTO product VALUES (4, 18, 2000, 105, 'Electronics - accesories', 'Airdopes')

1 row(s) inserted.

Statement **16**

✎ ▷ 🗑

INSERT INTO product VALUES (5, 11, 45000, 105, 'Electronics - appliances', 'TV')

1 row(s) inserted.

Statement **17**

✎ ▷ 🗑

INSERT INTO Branch VALUES (5, 'Branch E', 'Maharashtra', 'India')

1 row(s) inserted.

Statement **18**

✎ ▷ 🗑

INSERT INTO Branch VALUES (6, 'Branch F', 'Delhi', 'India')

1 row(s) inserted.

Statement **19**

✎ ▷ 🗑

INSERT INTO Branch VALUES (7, 'Branch G', 'Karnataka', 'India')

1 row(s) inserted.

Statement **20**

✎ ▷ 🗑

INSERT INTO Branch VALUES (8, 'Branch H', 'West Bengal', 'India')

1 row(s) inserted.

Statement **21**

✎ ▷ 🗑

INSERT INTO Branch VALUES (9, 'Branch I', 'Tamil Nadu', 'India')

1 row(s) inserted.

Statement **22**

✎ ▷ 🗑

INSERT INTO Location VALUES (1, 'Mumbai', 'Maharashtra', 'India')

```
1 row(s) inserted.
```

Statement 23

✎ ▷ 🗑

```
INSERT INTO Location VALUES (2, 'Delhi', 'Delhi', 'India')
```

```
1 row(s) inserted.
```

Statement 24

✎ ▷ 🗑

```
INSERT INTO Location VALUES (3, 'Bangalore', 'Karnataka', 'India')
```

```
1 row(s) inserted.
```

Statement 25

✎ ▷ 🗑

```
INSERT INTO Location VALUES (4, 'Kolkata', 'West Bengal', 'India')
```

```
1 row(s) inserted.
```

Statement 26

✎ ▷ 🗑

```
INSERT INTO Location VALUES (5, 'Chennai', 'Tamil Nadu', 'India')
```

```
1 row(s) inserted.
```

Statement 27

✎ ▷ 🗑

```
ALTER TABLE Sales_Fact DROP COLUMN sales_id
```

```
Table altered.
```

Statement 28

✎ ▷ 🗑

```
ALTER TABLE Sales_Fact
ADD (sales_id NUMBER GENERATED ALWAYS AS IDENTITY
(START WITH 1 INCREMENT BY 1))
```

```
Table altered.
```

Statement 29

✎ ▷ 🗑

```
INSERT INTO Location VALUES (6, 'Chennai', 'Tamil Nadu', 'India')
```

```
1 row(s) inserted.
```

Statement **30**

```
ALTER TABLE Sales_Fact
ADD (sales_id NUMBER GENERATED ALWAYS AS IDENTITY
(START WITH 1 INCREMENT BY 1))
```

ORA-01430: column being added already exists in table

More Details: https://docs.oracle.com/error-help/db/ora-01430

Statement **31**

```
ALTER TABLE Sales_Fact
ADD (sales_id NUMBER GENERATED ALWAYS AS IDENTITY
(START WITH 1 INCREMENT BY 1))
```

ORA-01430: column being added already exists in table

More Details: https://docs.oracle.com/error-help/db/ora-01430

Statement **32**

```
INSERT INTO Sales_Fact (
time_id,
product_id,
branch_id,
location_id,
quantity,
sales_amount,
revenue
)
SELECT
t.time_id,
p.product_id,
b.branch_id,
l.location_id,
FLOOR(DBMS_RANDOM.VALUE(1, 100)), -- Random quantity between 1 and 100
(FLOOR(DBMS_RANDOM.VALUE(1, 100)) * p.price), -- Random sales amount
(FLOOR(DBMS_RANDOM.VALUE(1, 100)) * p.price * 0.8) -- Random revenue
FROM
Time_dw t
CROSS JOIN
Product p
```

```
CROSS JOIN
Branch b
CROSS JOIN
Location l
```

750 row(s) inserted.

Statement **33**

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```
SELECT *
FROM Sales_Fact
WHERE time_id = '3'
```

TIME_ID	PRODUCT_ID	BRANCH_ID	LOCATION_ID	QUANTITY	SALES_AMOUNT	REVENU
3	1	5	1	84	640000	588800
3	1	5	2	18	4400000	172800
3	1	5	3	67	2960000	108800
3	1	5	4	22	3200000	326400
3	1	5	5	10	4480000	403200
3	1	5	6	97	3040000	492800
3	1	6	1	56	4080000	275200
3	1	6	2	37	3440000	64000
3	1	6	3	8	2400000	364800
3	1	6	4	60	6400000	307200
3	1	6	5	70	4400000	166400
3	1	6	6	55	7040000	236800
3	1	7	1	75	2960000	192000
3	1	7	2	52	6080000	294400
3	1	7	3	13	2560000	102400

3	1	7	4	28	4000000	54400(
3	1	7	5	58	7600000	58880(
3	1	7	6	50	3520000	41600(
3	1	8	1	65	7360000	23680(
3	1	8	2	49	6240000	22400(
3	1	8	3	74	2960000	58880(
3	1	8	4	43	6160000	17920(
3	1	8	5	88	6720000	58880(
3	1	8	6	92	4000000	89600(
3	1	9	1	24	5440000	53120(
3	1	9	2	59	5200000	58880(
3	1	9	3	85	5280000	16000(
3	1	9	4	49	880000	15360(
3	1	9	5	13	2880000	30720(
3	1	9	6	63	400000	42240(
3	2	5	1	6	37400	12104(
3	2	5	2	31	149600	91120
3	2	5	3	43	85000	96560
3	2	5	4	50	64600	13056(
3	2	5	5	81	163200	72080
3	2	5	6	99	74800	14960
3	2	6	1	31	3400	48960
3	2	6	2	56	81600	19040

3	2	6	3	7	146200	34000
3	2	6	4	32	73100	69360
3	2	6	5	8	88400	47600
3	2	6	6	69	22100	119680
3	2	7	1	38	6800	12240
3	2	7	2	92	107100	55760
3	2	7	3	70	62900	13600
3	2	7	4	94	124100	44880
3	2	7	5	74	35700	36720
3	2	7	6	17	15300	63920
3	2	8	1	59	22100	10880
3	2	8	2	15	107100	43520

Download CSV

Rows 1 - 50. More rows exist.

Statement **34**

✎ ▷ 🗑

```
SELECT *
FROM Sales_Fact
WHERE time_id = '2'
AND branch_id = 7
```

TIME_ID	PRODUCT_ID	BRANCH_ID	LOCATION_ID	QUANTITY	SALES_AMOUNT	REVENU
2	1	7	1	17	6000000	403200
2	1	7	2	81	160000	390400
2	1	7	3	66	7840000	377600
2	1	7	4	69	5520000	390400

2	1	7	5	85	5520000	396800
2	1	7	6	83	5680000	601600
2	2	7	1	26	153000	107440
2	2	7	2	97	25500	108800
2	2	7	3	3	100300	95200
2	2	7	4	57	163200	13600
2	2	7	5	35	159800	106080
2	2	7	6	31	13600	76160
2	3	7	1	40	144000	105600
2	3	7	2	15	408000	172800
2	3	7	3	7	24000	633600
2	3	7	4	32	648000	643200
2	3	7	5	78	1020000	748800
2	3	7	6	63	1128000	518400
2	4	7	1	39	180000	38400
2	4	7	2	21	136000	54400
2	4	7	3	68	198000	1600
2	4	7	4	23	28000	33600
2	4	7	5	29	32000	129600
2	4	7	6	78	114000	36800
2	5	7	1	83	450000	172800
2	5	7	2	44	1485000	252000
2	5	7	3	23	270000	342000

2	5	7	4	44	3375000	13680(
2	5	7	5	18	2655000	10440(
2	5	7	6	59	2745000	31680(

Download CSV

30 rows selected.

Statement **35**

✏️ ▷ 🗑️

```
SELECT branch_id, location_id,
SUM(sales_amount) AS total_sales,
SUM(revenue) AS total_revenue
FROM Sales_Fact
```

ORA-00937: not a single-group group function

More Details: https://docs.oracle.com/error-help/db/ora-00937

Statement **36**

✏️ ▷ 🗑️

```
SELECT location_id,
SUM(sales_amount) AS location_sales,
SUM(revenue) AS location_revenue
FROM Sales_Fact
WHERE branch_id = 7
GROUP BY location_id
```

LOCATION_ID	LOCATION_SALES	LOCATION_REVENUE
6	36458100	30094960
1	36340600	27986640
2	27443900	32239120
4	40286300	23970240
5	42341000	29272800
3	38962300	26359680

Download CSV

Statement **37**

```
SELECT *
FROM (
SELECT branch_id, sales_amount
FROM Sales_Fact
WHERE time_id = '4'
)
PIVOT (
SUM(sales_amount) AS total
FOR branch_id IN (6 AS branch_6, 7 AS branch_7, 8 AS branch_8)
)
```

BRANCH_6_TOTAL	BRANCH_7_TOTAL	BRANCH_8_TOTAL
44973100	51001200	49832800

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