

# Panda Express

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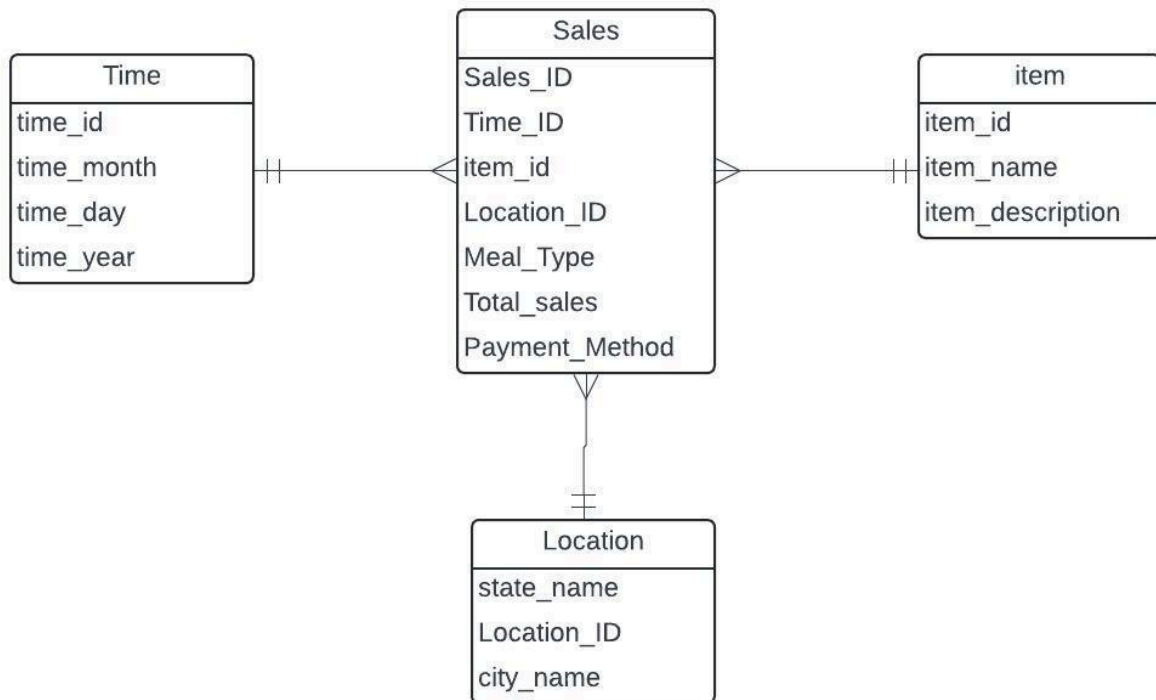
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## Dimensions

- Sales
- Time
- Item
- Location

## Facts

- Sales (In dollars \$\$)
- Count of quantity of orange chicken and chow mein sold

SQL Statements:

```
CREATE TABLE item (  
    item_id INTEGER PRIMARY KEY,  
    item_name VARCHAR2(34),  
    item_description VARCHAR2(100)  
);
```

```
CREATE TABLE time (  
    time_id INTEGER PRIMARY KEY,  
    time_month INTEGER,  
    time_day INTEGER,  
    time_year INTEGER,  
    time_hour INTEGER  
);
```

```
CREATE TABLE location (  
    location_id INTEGER PRIMARY KEY,  
    state_name VARCHAR2(32),  
    city_name VARCHAR2(32)  
);
```

```
CREATE TABLE sales (  
    sales_id INTEGER PRIMARY KEY,  
    time_id INTEGER,  
    item_id INTEGER,  
    location_id INTEGER,  
    meal_type VARCHAR2(10),  
    total_sales INTEGER,  
    payment_method VARCHAR2(10),  
    FOREIGN KEY (time_id) REFERENCES time(time_id),  
    FOREIGN KEY (item_id) REFERENCES item(item_id),  
    FOREIGN KEY (location_id) REFERENCES location(location_id)  
);
```

```
INSERT INTO item (item_id, item_name, item_description) VALUES  
(1, 'Orange Chicken', 'Crispy chicken wok-tossed in a sweet and spicy orange sauce');  
INSERT INTO item (item_id, item_name, item_description) VALUES  
(2, 'Kung Pao Chicken', 'Spicy stir-fry dish with chicken, peanuts, vegetables, and chili peppers');  
INSERT INTO item (item_id, item_name, item_description) VALUES
```

```
(3, 'Beijing Beef', 'Crispy beef, bell peppers, and onions in a sweet-tangy sauce');  
INSERT INTO item (item_id, item_name, item_description) VALUES  
(4, 'Super Greens', 'A healthful mix of broccoli, kale, and cabbage');  
INSERT INTO item (item_id, item_name, item_description) VALUES  
(5, 'Chow Mein', 'Stir-fried wheat noodles with onions, celery and cabbage');  
INSERT INTO item (item_id, item_name, item_description) VALUES  
(6, 'Double Teriyaki Chicken', 'Grilled chicken with teriyaki sauce');
```

```
INSERT INTO time (time_id, time_month, time_day, time_year, time_hour) VALUES  
(1, 4, 15, 2022, 14); -- 2 PM on the 15th  
INSERT INTO time (time_id, time_month, time_day, time_year, time_hour) VALUES  
(2, 4, 15, 2022, 15); -- 3 PM on the 15th  
INSERT INTO time (time_id, time_month, time_day, time_year, time_hour) VALUES  
(3, 4, 15, 2022, 16); -- 4 PM on the 15th
```

```
INSERT INTO location (location_id, state_name, city_name) VALUES  
(1, 'California', 'San Jose');  
INSERT INTO location (location_id, state_name, city_name) VALUES  
(2, 'Nevada', 'Las Vegas');  
INSERT INTO location (location_id, state_name, city_name) VALUES  
(3, 'Texas', 'Houston');
```

```
INSERT INTO sales (sales_id, time_id, item_id, location_id, meal_type, total_sales,  
payment_method) VALUES  
(1, 1, 1, 1, 'Lunch', 150, 'Credit'); -- Orange Chicken  
INSERT INTO sales (sales_id, time_id, item_id, location_id, meal_type, total_sales,  
payment_method) VALUES  
(2, 2, 5, 1, 'Lunch', 200, 'Cash'); -- Chow Mein  
INSERT INTO sales (sales_id, time_id, item_id, location_id, meal_type, total_sales,  
payment_method) VALUES  
(3, 3, 6, 1, 'Lunch', 180, 'Credit'); -- Double Teriyaki Chicken
```

### Questions

1. How much orange chicken and chow mein is sold on 15th of every month from 2PM-4PM at the San Jose State location?
2. How much revenue is made off of teriyaki chicken during midterms of the Fall Semester at the San Jose State location?

1. 

```
SELECT SUM(s.total_sales) AS total_sales
FROM sales s
JOIN item i ON s.item_id = i.item_id
JOIN time t ON s.time_id = t.time_id
JOIN location l ON s.location_id = l.location_id
WHERE i.item_name IN ('Orange Chicken', 'Chow Mein')
AND t.time_day = 15
AND t.time_hour BETWEEN 14 AND 16
AND l.city_name = 'San Jose'
AND l.state_name = 'California';
```
2. 

```
SELECT SUM(s.total_sales) AS total_revenue
FROM sales s
JOIN item i ON s.item_id = i.item_id
JOIN time t ON s.time_id = t.time_id
JOIN location l ON s.location_id = l.location_id
WHERE i.item_name = 'Teriyaki Chicken'
AND t.time_month = 10
AND t.time_day BETWEEN 14 AND 18
AND l.city_name = 'San Jose'
AND l.state_name = 'California';
```