```
SELECT *
FROM sales
ORDER BY store;
SELECT *
FROM stores
ORDER BY store;
/* What were the yearly sales?*/
SELECT date_part('year', date) AS year, ROUND(SUM(weekly_sales)/1000000000,2) AS yearly_sales_per_trillion
FROM sales
GROUP BY year;
/*What were the yearly sales by store?*/
SELECT date_part('year', date) AS year, store, CAST(SUM(weekly_sales) AS money) AS yearly_sales
FROM sales
GROUP BY year, store
ORDER BY year, store;
/*The previous query does not do a good job of letting us compare how each store did year to year so we'll filter
them in the selet clause by year to give us each year in it's own column*/
```

```
SELECT
       store,
       CAST(SUM(weekly_sales) filter(where date >= date '2010-01-01' AND date <= date '2010-12-31') AS money) AS yearly_sales_2010,
       CAST(SUM(weekly sales) filter(where date >= date '2011-01-01' AND date <= date '2011-12-31') AS money) AS yearly sales 2011,
       CAST(SUM(weekly sales) filter(where date >= date '2012-01-01' AND date <= date '2012-12-31') AS money) AS yearly sales 2012
FROM sales
GROUP BY store;
/*What is the YOY growth for each store?*/
SELECT
       store,
       ROUND((yearly_sales_2011 - yearly_sales_2010) / yearly_sales_2010 *100,2) AS "2011_sales_growth",
       ROUND((yearly sales 2012 - yearly sales 2011) / yearly sales 2011 *100,2) AS "2012 sales growth"
FROM
(SELECT
       store,
       SUM(weekly_sales) filter(where date >= date '2010-01-01' AND date <= date '2010-12-31') AS yearly_sales_2010,
       SUM(weekly_sales) filter(where date >= date '2011-01-01' AND date <= date '2011-12-31') AS yearly_sales_2011,
       SUM(weekly_sales) filter(where date >= date '2012-01-01' AND date <= date '2012-12-31') AS yearly_sales_2012
FROM sales
GROUP BY store) AS sq
```

```
GROUP BY 1,2,3;

/* 2012 was our lowest y
```

/* 2012 was our lowest year in total sales. What were the top 10 stores in total sales for 2012?*/

SELECT date_part('year', date) AS year, store, CAST(SUM(weekly_sales) AS money) AS yearly_sales

FROM sales

WHERE date_part('year', date) = 2012

GROUP BY year, store

ORDER BY yearly_sales DESC

LIMIT 10;

/* What were the bottom 10 stores in total sales for 2012?*/

SELECT date_part('year', date) AS year, store, CAST(SUM(weekly_sales) AS money) AS yearly_sales

FROM sales

WHERE date_part('year', date) = 2012

GROUP BY year, store

ORDER BY yearly_sales ASC

LIMIT 10;

/*Lets look at some store details*/

SELECT date_part('year', date) AS year, sales.store, type, size, CAST(SUM(weekly_sales) AS money) AS yearly_sales

```
FROM sales
INNER JOIN stores ON sales.store = stores.store
WHERE date_part('year', date) = 2012
GROUP BY year, sales.store, type, size
ORDER BY yearly_sales ASC
LIMIT 10;
/*Adding the metric to get sales by sqft will show us how well the store type is doing regardless of size*/
SELECT
       date_part('year', sales.date) AS year,
       sales.store,
       stores.type,
       size,
       CAST(SUM(sales.weekly_sales) AS money) AS yearly_sales,
       CAST(SUM(sales.weekly_sales/stores.size) AS money) AS sales_by_sqft
FROM sales
INNER JOIN stores ON sales.store = stores.store
WHERE date_part('year', date) = 2012
GROUP BY year, sales.store, stores.size, type
ORDER BY sales.store ASC;
```

```
/*What is the avg sales per sqft by store type? As you can see, type A stores have the lowest avg. sales
by sqft for all 3 years.*/
SELECT
       year,
       type,
       CAST(AVG(sales_by_sqft) AS money)AS avg_sales_by_sqft
FROM
(SELECT
               date_part('year', sales.date) AS year,
               stores.type,
               sales.store,
               stores.size,
               SUM(sales.weekly_sales) AS total_sales,
               SUM(sales.weekly_sales)/ AVG(stores.size) AS sales_by_sqft
       FROM sales
       INNER JOIN stores ON sales.store = stores.store
       GROUP BY year, stores.type, sales.store, stores.size) AS sq
GROUP BY 1,2
ORDER BY 1,3 DESC;
/*What were the yearly sales by department?*/
```

SELECT date_part('year', date) AS year, dept, CAST(SUM(weekly_sales) AS money) AS yearly_sales

FROM sales

GROUP BY year, dept

ORDER BY year, dept;