

2)

## SQL query

All variable names are refereeing to the ER diagram above

# Which brand saw the most dollars spent in the month of June

```
Select brand_code, sum(final_price) as dollars
from
receipt_detail
left join receipt on receipt.receipt_id = receipt_detail.receipt_id
left join item on receipt_detail.item_id = item.item_id
left join brand on item.brand_id = brand.brand_id
where month(purchase_date) = 6
group by brand_code
order by total_dollars desc
limit 1;
```

# Which user spent the most money in the month of August?

```
Select user.user_id, sum(total_spent) as final_spent
from
receipt left join user on receipt.user_id = user.user_id
where month(date_scanned) = 8
group by user.user_id
order by total_spent desc
limit 1;
```

#What user bought the most expensive item?

```
Select user.user_id, final_price/quantity as unit_price
from
receipt_detail
left join receipt on receipt_detail.receipt_id = receipt.receipt_id
left join user on receipt.user_id = user.user_id
order by unit_price desc
limit 1;
```

# What is the name of the most expensive item purchased  
# we should use sql of

```
select name, unit_price
from
receipt_detail left join item on receipt_detail.item_id = item.item_id
order by unit_price desc
limit 1;
```

#How many users scanned in each month

```
select count(distinct user_id)
from
receipt left join user on receipt.user_id = user.user_id
group by month(purchase_date)
```