

# Error Codes

Exercise 1: --Goal: Here we use users table to pull a list of user email addresses. Edit the query to pull email addresses, but only for non-deleted users.

```
1. select id as user_id,  
2.     email_address  
3. from dsv1069.users  
4. where deleted_at is null  
5. limit 5
```

Exercise 2: --Goal: Use the items table to count the number of items for sale in each category.

```
1. select category,  
2.     count(id) as item_count  
3. from dsv1069.items  
4. group by category  
5. limit 5
```

Exercise 3: --Goal: Select all of the columns from the result when you JOIN the users table to the orders table.

```
1. select *  
2. from dsv1069.orders  
3. join dsv1069.users  
4. on orders.user_id = users.id  
5. limit 5
```

Exercise 4: --Goal: Check out the query below. This is not the right way to count the number of viewed item events. Determine what is wrong and correct the error.

```
1. select count(distinct event_id) as events  
2. from dsv1069.events  
3. where event_name = 'view_item'
```

Exercise 5: --Goal: Compute the number of items in the items table which have been ordered. The query below runs, but it isn't right. Determine what is wrong and correct the error or start from scratch.

```
1. select count(distinct orders.item_id) as item_count  
2. from dsv1069.orders
```

Exercise 6: --Goal: For each user figure out IF a user has ordered something, and when their first purchase was. The query below doesn't return info for any of the users who haven't ordered anything.

```
1. select users.id as user_id,  
2.     min(orders.paid_at) as min_paid_at  
3. from dsv1069.users  
4. left outer join dsv1069.orders  
5. on orders.user_id = users.id  
6. group by users.id  
7. limit 10
```

Exercise 7: --Goal: Figure out what percent of users have ever viewed the user profile page, but this query isn't right. Check to make sure the number of users adds up, and if not, fix the query.

```
1. select  
2. (select count(distinct user_id)  
3.  from dsv1069.users u  
4.  left outer join dsv1069.events e  
5.  on u.id = e.user_id
```

```
6.     and e.event_name = 'view_user_profile'
7.     group by e.event_name
8.     having min(event_time) is not null) as total_profile_view_count,
9.     count(distinct id) as total_user_count,
10.     round(3035*100./117178, 2) as pct_viewed
11. from dsv1069.users
```

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