

## SQL Query Assignment: ToDo App

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### Query Solutions

**1. List all todos that are due after today and are still pending.**

```
SELECT * FROM todos
WHERE status = 'pending'
AND due_date > '2025-07-11';
```

**2. Find users who have the word "john" anywhere in their name (case insensitive).**

```
SELECT * FROM users
WHERE LOWER(name) LIKE '%john%';
```

**3. Show how many todos each user has.**

```
SELECT user_id, COUNT(*) AS todos_count
FROM todos
GROUP BY user_id;
```

**4. Find users who have created more than 2 todos.**

```
SELECT user_id
FROM todos
GROUP BY user_id
HAVING COUNT(*) > 2;
```

**5. Get the earliest and latest due date for each user.**

```
SELECT user_id, MIN(due_date) AS earliest, MAX(due_date) AS latest
FROM todos
GROUP BY user_id;
```

**6. List each todo along with the user's name.**

```
SELECT u.name, t.title, t.description
FROM todos t
JOIN users u ON t.user_id = u.id;
```

**7. List each todo with its category name and user name.**

```
SELECT t.title, t.description, c.name AS category_name, u.name AS user_name
FROM todos t
JOIN categories c ON t.category_id = c.id
JOIN users u ON t.user_id = u.id;
```

**8. Find users who have at least one todo in the 'Personal' category.**

```
SELECT DISTINCT u.id, u.name AS user_name
FROM todos t
JOIN categories c ON t.category_id = c.id
JOIN users u ON t.user_id = u.id
WHERE c.name = 'Personal';
```

**9. Find categories that have more than 2 todos.**

```
SELECT c.id, c.name AS category_name
FROM categories c
JOIN todos t ON t.category_id = c.id
GROUP BY c.id, c.name
HAVING COUNT(*) > 2;
```

**10. List users who have only completed todos (no pending tasks).**

```
SELECT u.id, u.name AS user_name
FROM users u
JOIN todos t ON u.id = t.user_id
GROUP BY u.id, u.name
HAVING SUM(CASE WHEN t.status = 'pending' THEN 1 ELSE 0 END) = 0;
```

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