**GROK**
**L E A R N I N G**

📄 Problem (/learn/data-driven-astro/module-6/12/) **Lonely stars**

To practise your outer joins, write a query which returns the `kepler_id`, `t_eff` and `radius` for all stars in the `Star` table which haven't got a planet as join partner. Order the resulting table based on the `t_eff` attribute in descending order.

The result should look like this on the example data:

```
+-----------+-------+--------+
| kepler_id | t_eff | radius |
+-----------+-------+--------+
|   6922244 |  6225 |  1.451 |
|  10480982 |  6117 |  0.947 |
|  10797460 |  5850 |   1.04 |
|   6862328 |  5796 |  0.871 |
|   3246984 |  5735 |  0.973 |
|   3114167 |  5666 |  0.677 |
|  11414511 |  5653 |  0.965 |
|   4275191 |  5557 |  0.781 |
|   3832474 |  5485 |  0.867 |
+-----------+-------+--------+
(9 rows)
```

## 💡 Hint: You wil need...

- a `LEFT OUTER JOIN` on `Star` with `Planet`;
- an `IS NULL` check on `Planet.koi_name` to look for stars without planets;
- an `ORDER BY` to sort by descending effective temperature.