Equivalence example

• Relation  R { 1 2 3 4 5 }
• Relation  S { 4 5 6 7 8 }
• $\cap = \text{intersection}$

$$R \cap S \Leftrightarrow R - (R - S)$$
R \cap S \iff R - (R - S)
What is the difference between R and S?

The difference of R – S?
$R \cap S \iff R - (R - S)$
After adding David Davis to the DRIVER table (in R, but not S)

```
SELECT name -- R – (R – S)
FROM Driver R
WHERE name not in
  (SELECT name -- (R – S)
   FROM Driver R
   WHERE name not in
     (SELECT owner -- S
      FROM Car S
      WHERE owner is not null))
```