# ISOLATION LEVELS IN SQL SERVER



READS UNCOMMITTED DATA (GROSS!)

### OCCURS UNDER

 READ UNCOMMITTED AKA NOLOCK (STATEMENT & TRANSACTION)



LITERALLY EVERY OTHER ISOLATION LEVEL



# NON-REPEATABLE READS

IF YOU READ THE DATA AGAIN, IT'S DIFFERENT

# **OCCURS UNDER**

- READ UNCOMMITTED (STATEMENT & TRANSACTION)
  READ COMMITTED (STATEMENT & TRANSACTION)
- READ COMMITTED SNAPSHOT (TRANSACTION)

## **IMMUNE**

- REPEATABLE READ
- SERIALIZABLE
- READ COMMITTED SNAPSHOT (STATEMENT)
- SNADSHOT



IF YOU READ THE DATA AGAIN, A NEW ROW IS THERE

#### OCCURS UNDER

- READ UNCOMMITTED (STATEMENT & TRANSACTION
- READ COMMITTED (STATEMENT & TRANSACTION)
- READ COMMITTED SNAPSHOT (TRANSACTION)
- REPEATABLE READ

#### **IMMUNF**

- SERIALIZABLE (BEWARE THE LOCKS IN ROWSTORE)
- READ COMMITTED SNAPSHOT (STATEMENT)
- SNAPSHOT



MOST CORRECT -

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