IDB Lecture 5: Relational Algebra on Sets

Division

For, R over a set of attributes X, S over a set of attributes $Y\subset X.$ Let Z=X-Y

$$R \div S = \{r \in \pi_Z(R) \mid \forall s \in S, rs \in R\}$$
$$= \{r \in \pi_Z(R) \mid \{r\} \times S \subseteq R\}$$
$$= \pi_Z(R) - \pi_Z(\pi_Z(R) \times S - R)$$

Note: I don't really understand

Intuition: remove all data from X relating to Y?