

IDS Lecture 5: Relational Algebra on Sets

Divison 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