

Assignment 4: The Relational Algebra

Hien Tu - tun1

November 2, 2021

The requested queries

1. $\sigma_{\text{startdate} < \text{enddate}}(\text{event})$
2. $\pi_{\text{U.uid}, \text{E.eid}}(\rho_{\text{U}}(\text{user}) \bowtie_{\text{U.postcode} = \text{E.postcode}} \rho_{\text{E}}(\text{event}))$
3. $X := \rho_{\text{E}}(\text{event}) \bowtie_{\text{E.eid} = \text{EnoRv.eid}} \rho_{\text{EnoRv}}(\pi_{\text{eid}}(\text{event}) \setminus \pi_{\text{event}}(\text{review}))$
 $\pi_{\text{E.eid}, \text{E.title}, \text{E.description}, \text{E.startdate}, \text{E.enddate}, \text{E.organizer}, \text{E.postcode}}(X)$