sql Lab2

Consultas

Autosuficiente

Albumes de cada banda

$$Album\_performer \leftarrow (\pi_{\text{band,name}}(\text{Involvement}) *_{\text{band=performer}} \text{Albums})$$

tracks de cada banda

$$Tracks\_performer \leftarrow (\pi_{\text{pair, seq, writer}}(\text{Tracks}) *_{\text{pair}} \text{Album\_performer})$$

numero de tracks interpretados por cada banda

$$Totales \leftarrow \pi_{performer,count()\ as\ TOTAL}(\pi_{pair,seq,performer}\text{Tracks\_performer})GroupBy(performer)$$

tracks propias de cada banda

$$tracks\_propias \leftarrow \sigma_{writer=name}(tracks\_performer)$$

número de tracks propias de cada banda

$$num\_tracks\_propias \leftarrow \pi_{performer,count()\ as\ numPropias}(track\_propias)GroupBy(performer)$$

Unión de conteos

$$Tracks\_union \leftarrow num\_tracks\_propias *_{performer} Totales$$

porcentaje de tracks propias de cada banda

$$result_1 \leftarrow \pi_{performer,(numTotales/TOTAL)*100}Tracks\_union$$

Interpretaciones propias de cada banda

$$int\_propias \leftarrow \pi_{performer,count()\ as\ propias}(Performances *_{performer} tracks\_propias)GroupBy(performer)$$

interpretaciones totales

$$int\_totales \leftarrow \pi_{performer,count()\ as\ TOTAL}(Performances)GroupBy(performer)$$

$$int\_union \leftarrow int\_propias *_{performer} int\_totales$$

$$result_2 \leftarrow \pi_{performer,(propias/TOTAL)*100}int\_union$$

resultado final:

$$sol \leftarrow result_1 *_{performer} result_2$$