

O fato do banco de dados...

1 - D

2 - E

3 - B

4 - E

5 - B

6 - C

$$A = (\underline{KA}, A1)$$

$$B = (\underline{KA}, \underline{KB}, B1, \\ (KA) \text{ references } A)$$

$$C = (\underline{KA}, C1, C2, KD, \\ (KA) \text{ references } A, \\ (KD) \text{ references } D)$$

$$B_B2 = (\underline{KB}, \underline{B22}, B23, B24, \\ (KB) \text{ references } B)$$

$$D = (\underline{KD}, D1, KA, \\ (KA) \text{ references } C)$$

$$E = (\underline{KE}, E1)$$

$$F = (\underline{KE}, F22, F23, F24, \\ (KE) \text{ references } E)$$

$$AF = (\underline{KA}, \underline{KE}, F22, \\ (KA) \text{ references } A, \\ (KE, F22) \text{ references } F)$$

$$DE = (\underline{KD}, \underline{KE}, XXX, YXX, \\ (KD) \text{ references } D, \\ (KE) \text{ references } E)$$

$$CDE = (\underline{KA}, \underline{KD}, \underline{KE}, XXX, AAA, ZZZ, \\ (KA) \text{ references } C, \\ (KD, KE, XXX) \text{ references } DE)$$

$$a) \prod_{\text{cod-Imv}, \text{Inscr-Imob}} (\text{imoveis}) \text{ ---}$$

$$\prod_{\substack{i.\text{cod-Imv}, \\ i.\text{Inscr-Imob}}} \left(\bigcup_{\substack{i.\text{cod-Imv} = ip.\text{cod-Imv} \\ \wedge ip.\text{cod-di} = c.\text{cod-di} \\ \wedge c.\text{Dt-Nasc} < 1955}} \left(p_i(\text{imoveis}) \times p_{ip}(\text{Imv-pes-prop}) \times p_c(\text{clientes}) \right) \right)$$

$$b) \prod_{\substack{\text{cod-Imv}, \\ \text{Inscr-Imob}}} (\text{imoveis}) - \prod_{\substack{i.\text{cod-Imv}, \\ i.\text{Inscr-Imob}}} \left(\bigcup_{i.\text{area} > j.\text{area}} \left(p_i(\text{imoveis}) \times p_j(\text{imoveis}) \right) \right)$$

$$c) \prod_{\substack{l.\text{cod-di}, \\ l.\text{nome}}} \left(\bigcup_{\substack{c.\text{cod-di-locapais} = l.\text{cod-di} \\ \wedge c.\text{cod-di-fador} = f.\text{cod-di} \\ \wedge l.\text{data-Nasc} < f.\text{data-Nasc}}} \left(p_c(\text{Contratos-Aluguel}) \times p_l(\text{clientes}) \times p_f(\text{clientes}) \right) \right)$$

$$d) \prod_{\substack{ip.\text{cod-di}, \\ ip.\text{Nome}}} \left(\bigcup_{p.\text{cod-di} = ip.\text{cod-di}} \left(p_p(\text{clientes}) \times p_{ip}(\text{imv-pes-prop}) \right) \right)$$

$$\vee \prod_{\substack{\text{cod-di}, \\ \text{Nome}}} \left(\bigcup_{f.\text{cod-di} = c.\text{cod-di-fador}} \left(p_c(\text{Contratos-Alg}) \times p_f(\text{clientes}) \right) \right)$$

$$\text{OBS: } \text{Contratos-Aluguel} \Rightarrow \text{Contratos-Alg}$$