Determinar la o las claves candidatas de cada una de las variables de relación. A continuación, realizar el proceso de normalización hasta la mejor forma normal conocida.

```
a) {A,B,C,D,E,F,G,H,I,J,K}
DF's
           \{A,B\}\rightarrow \{C,D,E,F,G\}
                                                                                \{F\} \rightarrow \{G\}
           \{B\} \rightarrow \{H,I,J,K\}
                                                                                \{H\} \rightarrow \{K,J\}
           \{C,D\} \rightarrow \{E,F,G\}
                                                                                {I}<del>→</del>{J}
           \{D,E\}\rightarrow\{C,F,G\}
b) { A,B,C,D,E,F,G,H,I,J,X,Y,Z}
DF's
           \{X,Y,Z\}\rightarrow\{A,B,C,D,E,F,G,H,
                                                                                \{C,B\}\rightarrow\{A\}
          I,J}
                                                                                \{H\} \rightarrow \{J\}
                                                                                \{I\} \rightarrow \{H,J\}
           \{X,Y\} \rightarrow \{A,B,C\}
           \{Y,Z\} \rightarrow \{H,I,J\}
                                                                                \{Y\} \rightarrow \{F,G\}
           \{A,B\}\rightarrow\{C\}
c) {A,B,C,D,E,F,G,H,I,J,K}
DF`s
           \{A\} \rightarrow \{C,D,E,F,G\}
                                                                                \{C,D\}\rightarrow \{E,F,G\}
                                                                                \{D,E\}\rightarrow\{C,F,G\}
           \{B\} \rightarrow \{H,I,J,K\}
           \{K\} \rightarrow \{I,J\}
                                                                                \{F\} \rightarrow \{G\}
d) {A,B,C,D,E,F,G,H,I,J,K}
DF's
           \{A\} \rightarrow \{C,D,E\}
                                                                                \{C,E\}\rightarrow\{D,F,G\}
           \{B\} \rightarrow \{H,K\}
                                                                                \{F\} \rightarrow \{J\}
           \{K\} \rightarrow \{I\}
                                                                                \{D\} \rightarrow \{E\}
           \{C,D\} \rightarrow \{E,F,G\}
e) {A,B,C,D,L,M,N,Q,X,Y,Z}
DF's
                                                                                \{B,C\}\rightarrow\{A,D\}
           \{M\} \rightarrow \{A,B,C,D\}
                                                                                \{M,N\} \rightarrow \{L\}
           \{N\} \rightarrow \{X,Y,Z\}
           \{A,B\} \rightarrow \{C,D\}
                                                                                \{Z\} \rightarrow \{Q\}
f) {A,B,C,L,M,N,O,P,Q,X,Y,Z}
DF's
           \{M\} \rightarrow \{O,P,Q\}
                                                                                \{0\} \rightarrow \{Q\}
           \{N\} \rightarrow \{A,B,C\}
                                                                                \{A,B\}\rightarrow\{C\}
           \{Z\} \rightarrow \{X,Y\}
                                                                                \{B,C\}\rightarrow\{A\}
           \{L\} \rightarrow \{X,Y,Z\}
                                                                                \{Q\} \rightarrow \{P\}
g) {A,B,C,D,E,F,M,N,O,P,X,Y,Z}
DF's
           \{A,B\} \rightarrow \{X,Y,Z\}
                                                                                \{C,D\} \rightarrow \{E,F\}
           \{B\} \rightarrow \{M,N,P,O\}
                                                                                \{D,E\}\rightarrow\{C,F\}
           \{N\} \rightarrow \{P\}
                                                                                \{X\} \rightarrow \{Z\}
```

h) {A,B,C,D,E,F,M,N,O,P,X,Y,Z} **DF** 's

 $\{X\}\rightarrow \{A,B,C,D,E,F\}$ $\{N\}\rightarrow \{O,P,Z\}$ $\{Y\}\rightarrow \{M,N,P,O\}$ $\{M\}\rightarrow \{N\}$ $\{A,B,C\}\rightarrow \{D,E,F\}$ $\{B,C,D\}\rightarrow \{A,E,F\}$

i) {A,B,C,O,P,Q,R,S,T,V,W,X,Y,Z} DF´s

 $\{A\} \rightarrow \{W,X,Y,Z\}$ $\{O\} \rightarrow \{P\}$ $\{W\} \rightarrow \{X,Y\}$ $\{P\} \rightarrow \{O\}$ $\{Z\} \rightarrow \{V\}$ $\{C\} \rightarrow \{Q,R,S,T\}$ $\{B\} \rightarrow \{O,P\}$ $\{R\} \rightarrow \{S\}$

j) {A,B,C,D,E,F,G,H,U,V,W,X,Y,Z} DF´s

k) {D,E,F,G,I,J,K,L,M,N.O.P} DF's

D->K,L,J I->J E,F->N,M M->N N->O,P F,G->M E->G G->E