

There are many predicate calculus representations for each English sentence. In the answers provided, the assumed domains are “all watercraft”, “all watercraft”, “all fishing boats”, and “all students”, respectively.

- Every cruise ship was accompanied by at least one tug.  
 $\forall x \text{cruise}(x) \Rightarrow \exists y \text{tug}(y) \wedge \text{accompany}(y, x)$
- At least one tanker was accompanied by more than one tug.  
 $\exists x, y, z \text{tanker}(x) \wedge \text{tug}(y) \wedge \text{tug}(z) \wedge (y \neq z) \wedge \text{accompany}(y, x) \wedge \text{accompany}(z, x)$
- All the fishing boats but one returned safely to port.  
 $\exists x \neg \text{safely}(x) \wedge \forall y (x \neq y) \Rightarrow \text{safely}(y)$
- There are exactly two students with grade less than B.  
 $\exists x, y \text{lessB}(x) \wedge \text{lessB}(y) \wedge (x \neq y) \wedge \forall z \text{lessB}(z) \Rightarrow (z = x \vee z = y)$