The Fubini theorem and the Kuratowski-Ulam theorem show similarities between the concepts meager set in Polish space and set of zero measure in standard Borel space. Those theorems can be generalized. The Fubini theorem is generalized by the Measure disintegration theorem and the Kuratowski-Ulam theorem is generalized by the Category disintegration theorem. The claims of disintegration theorems are analogous and show even more the similarities between meager sets and sets of zero measure. The main aim of this thesis is to prove disintegration theorems and show how Fubini and Kuratowski-Ulam theorems follow.