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A problem of central interest in combinatorial Hopf algebras is to find Hopf algebra structures on quiver algebras and coalgebras. At the same time, an important class of quantum groups are those having a non-zero integral. They are precisely those whose category of comodules is Frobenius (injectives=projectives). These generalize the compact groups: the (Hopf) algebra of representative functions on a topological compact group has a non-zero integral given by restricting the Haar integral. We show that quiver or PO-set coalgebras with this property - the so called co-Frobenius coalgebras - must be co-semisimple. We thus turn attention to more general objects: pointed coalgebras which have a basis of paths in some quiver coalgebra. This situation dualizes that of quiver algebras modulo monomial relations, and, in fact, recovers at least the finite dimensional such algebras. We classify such co-Frobenius coalgebras and show connections to (q-)Homological Algebra. We then classify the above mentioned pointed "monomial" Hopf algebras with nonzero integral (compact quantum groups). We also show how these arise from a different direction: serial Hopf algebras, and we find a unifying approach between their representation theory and the theory of infinite abelian groups. (Received May 23, 2011)