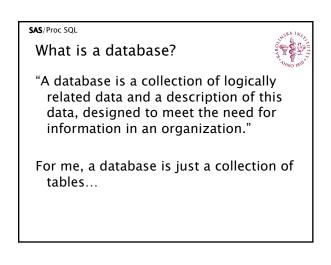


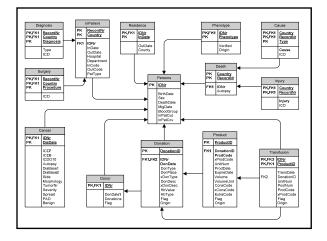
SAS/Proc SQL

What is SQL?



- SQL = Structured Query Language.
- Developed by IBM in the 1970s for querying, modifying and updating relational databases
- Adopted and standardized by ANSI and ISO during the 1980s
- Used with (almost) all RDBMS (Relational Data Base Management System) e.g. Oracle, DB2, Access, MySQL etc.
- Most RDBMS also offer enhancements to ANSI SQL





SAS/Proc SQL

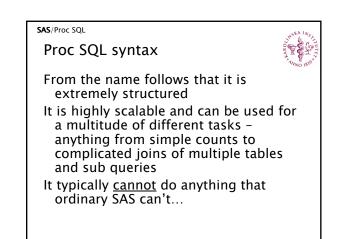
What is Proc SQL?



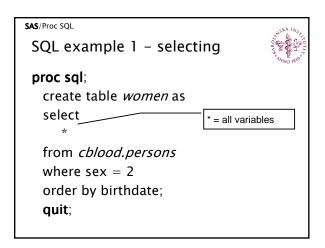
Proc SQL is a SAS implementation of SQL

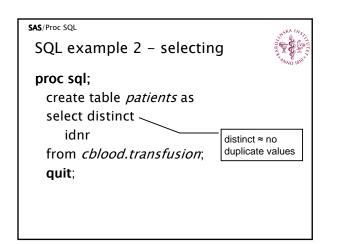
- It can be conceptualized as a combination of the data step, proc summary and proc sort, all at once
- Using Proc SQL you can execute SQL queries on a remote database server

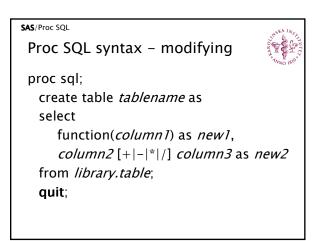
sas/Proc s	SKA INV SKA INV NVO 1800		
	SAS Data step	Proc SQL	
-	Dataset	Table	
	Variable	Column	
	Observation	Row	
	Merge	Join	
	Append	Union	



Here Incom	
data tablename;	
keep column1, column2;	
set library.table;	
where <i>expression</i> ;	
proc sort; by column1; run;	
-	





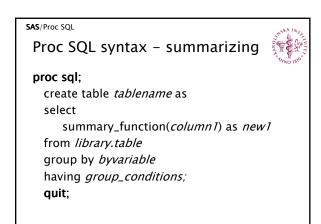


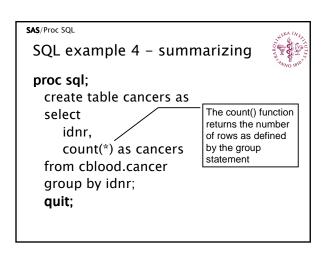
SAS/Proc SQL

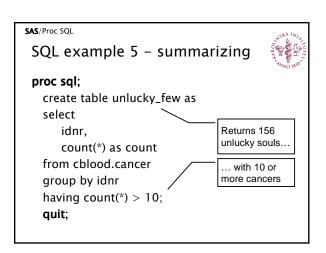
SQL example 3 - modifying

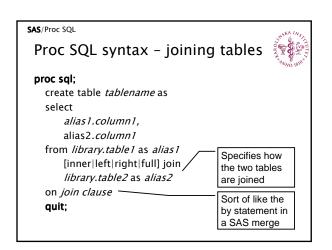


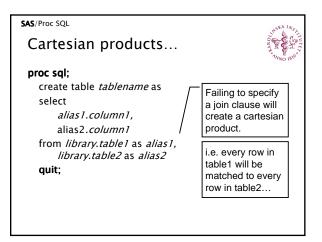
proc sql; create table dead as select idnr, (deathdate-birthdate)/365.24 as age from cblood.persons where not deathdate is null; quit;

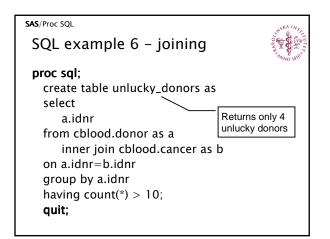


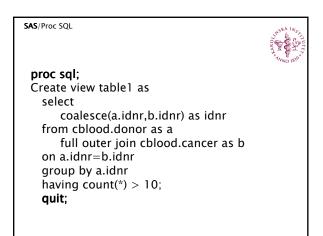


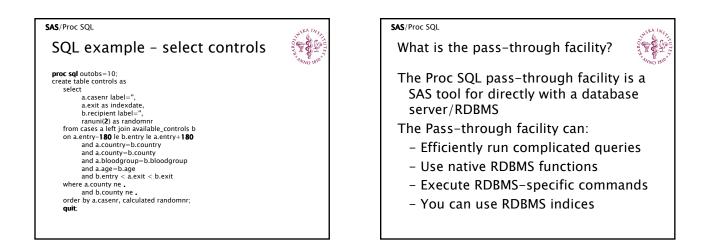


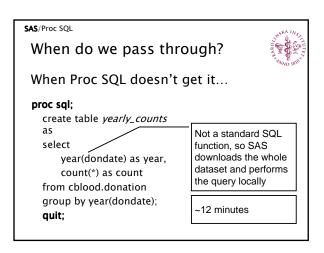


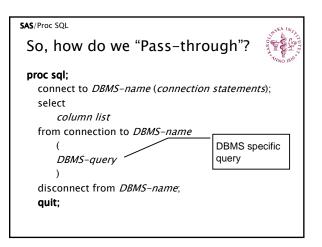












SQL Example 7 – Pass-t	hrough	V.5.
proc sql: connect to oracle (user=? path=? password select	l=?);	
from connection to oracle (select extract(year from dondate) as yea	The Oracle version of the year() function	
count(*) as count from cblood2.donation group by extract(year from dondate));	~30 seconds	
disconnect from oracle; quit ;		

