SQL Practice Questions

Few SQL practice questions are given below. Create the required tables, and populate the given data into those. You can verify the results of your SQL queries against the expected results in each question.

Schema

SUPPLIER {SNO, SNAME, STATUS, CITY}

PART {PNO, PNAME, COLOR, WEIGHT, CITY}

SUPP_PART {SNO, PNO, QTY}

Data

The "SUPPLIER" Table

SNO	SNAME	STATUS	CITY	
s1	Smith	20	London	
s2	Jones	10	Paris	
s3	Blakes	30	Paris	
s4	Clark	20	London	
s5	Adams	30	Athens	
s6	Oh		Seattle	
s7	Fidel		Seattle	
s8	Carlyle		Seattle	

The "PART" table

	PNO	PNAME	COLOR	WEIGHT	CITY	
	p1	Nut	Red	12	London	
Ĺ	p2	Bolt	Green	17	Paris	
	р3	Screw	Blue	17	Rome	
	p4	Screw	Red	14	London	
	p5	Cam	Blue	12	Paris	
	p6	Cog	Red	19	London	

• The "SUPP_PART" Table

SNO	PNO	QTY	
s1	p1	300	
s 1	p2	200	
s 1	р3	400	
s1	p4	200	
s1	p5	100	
s1	p6	100	
s2	p1	300	
s 2	p2	400	
s 3	p2	200	
s4	p2	200	
s4	p4	300	
s4	p5	400	

Simple Queries

Q1: Get supplier numbers and status for suppliers in Paris.

SNO	STATUS		
s 2	10		
s3	30		

• Q2: Get part numbers for all parts supplied.

PNO
p1
p2
р3
p4
р5
p6
p1
p2
p2
p2
p4
p5

• Q3: Get distinct part numbers for all parts supplied.

PNO
p1
p2
р3
p4
p5
p6

• Q4: Get full details of all suppliers.

SNO	SNAME	STATUS	CITY	
s1	Smith	20	London	
s2	Jones	10	Paris	
s3	Blakes	30	Paris	
s4	Clark	20	London	
s5	Adams	30	Athens	
s6	Oh		Seattle	
s7	Fidel		Seattle	
s8	Carlyle		Seattle	

• Q5: For all parts, get the part number and the weight of that part in grams (part weights are given in pounds in the table P). 1 pound is 454 grams.

PNO	WEIGHT	Weight-in-Grams
p1	12	5448
p2	17	7718
р3	17	7718
p4	14	6356
p5	12	5448
p6	19	8626

• Q6: Get supplier numbers for suppliers in Paris with status > 20.

SNO
s 3

Q7: Get supplier numbers and status for suppliers in Paris in descending order status.

SNO	STATUS	
\$3	30	
s2	10	

• Q8: Get supplier numbers for suppliers with no status.

SNO
s 6
s7
s8

Queries Requiring Table Joins

 Q9: Get all combinations of supplier information and part information where the supplier and part concerned are co-located in the same city.

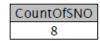
SNO	SNAME	S.CITY	STATUS	PNO	PNAME	COLOR	WEIGHT	P.CITY
s1	Smith	London	20	p6	Cog	Red	19	London
s1	Smith	London	20	p4	Screw	Red	14	London
s1	Smith	London	20	pl	Nut	Red	12	London
s2	Jones	Paris	10	p5	Cam	Blue	12	Paris
s2	Jones	Paris	10	p2	Bolt	Green	17	Paris
s3	Blakes	Paris	30	p5	Cam	Blue	12	Paris
s 3	Blakes	Paris	30	p2	Bolt	Green	17	Paris
s4	Clark	London	20	p6	Cog	Red	19	London
s4	Clark	London	20	p4	Screw	Red	14	London
s4	Clark	London	20	p1	Nut	Red	12	London

 Q10: Get all combinations of supplier information and part information where the supplier and part concerned are co-located, but omitting suppliers with status 20.

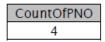
SNO	SNAME	S.CITY	STATUS	PNO	PNAME	COLOR	WEIGHT	P.CITY
s2	Jones	Paris	10	p5	Cam	Blue	12	Paris
s2	Jones	Paris	10	p2	Bolt	Green	17	Paris

Queries Requiring Aggregate Functions

· Q13: Get the total number of suppliers.



• Q14: Get the number of shipments for part p2.



· Q15: Get the total quantity of part p2 supplied.

SumOfQTY
1000

 Q16: For each part supplied, get the part number and the total shipment quantity for that part.

PNO	SumOfQTY	
p1	600	1
p2	1000	
р3	400	
p4	500	
p 5	500	
p6	100	

· Q17: Get part numbers for all parts supplied by more than one supplier.

PNO
pl
p2
p4
p5

Truncated Searching

· Q18: Get all parts whose names begin with the letter C.

PNAME
Cam
Cog