

Query #1.

```
SELECT * FROM supplier
```

Result:5 rows

sno	sname	status	city
S1	Smith	20	London
S2	Jones	10	Paris
S3	Blake	30	Paris
S4	Clark	20	London
S5	Adams	30	Athens

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Query #2.

```
SELECT * FROM job
```

Result:7 rows

jno	jname	city
J1	Sorter	Paris
J2	Punch	Rome
J3	Reader	Athens
J4	Console	Athens
J5	Collator	London
J6	Terminal	Oslo
J7	Tape	London

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Query #3.

```
SELECT * FROM part
```

Result:6 rows

pno	pname	color	weight	city	price
P1	Nut	Red	12	London	0.07
P2	Bolt	Green	17	Paris	0.12
P3	Screw	Blue	17	Rome	0.05
P4	Screw	Red	14	London	0.02
P5	Cam	Blue	12	Paris	1.19
P6	Cog	Red	19	London	2.03

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Query #4.

```
SELECT * FROM part WHERE color = 'Red'
```

Result:3 rows

pno	pname	color	weight	city	price
P1	Nut	Red	12	London	0.07
P4	Screw	Red	14	London	0.02
P6	Cog	Red	19	London	2.03

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Query #5.

```
SELECT pname FROM part
```

Result:6 rows

pname
Nut
Bolt
Screw
Screw
Cam
Cog

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Query #6.

```
SELECT pname FROM part WHERE color = 'Green'
```

Result:1 rows

pname
Bolt

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Query #7.

```
SELECT distinct city FROM job
```

Result:5 rows

city
Paris
Rome
Athens
London
Oslo

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Query #8.

```
SELECT jname FROM job WHERE city = 'Paris'
```

Result:1 rows

jname
Sorter

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Query #9.

```
SELECT sno FROM spj WHERE jno = 'J1'
```

Result:3 rows

sno
S1
S2
S3

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Query #10.

```
SELECT sno FROM spj WHERE jno = 'J3' AND pno = 'P6'
```

Result:1 rows

sno
S4

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Query #11.

```
SELECT pno, pname FROM part WHERE weight >= 17
```

Result:3 rows

pno	pname
P2	Bolt
P3	Screw
P6	Cog

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Query #12a.

```
SELECT jname FROM job WHERE city <> 'Paris' AND city <> 'London'
```

Result:4 rows

jname
Punch
Reader
Console
Terminal

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Query #12b.

```
SELECT jname FROM job WHERE not (city = 'Paris' OR city = 'London')
```

Result:4 rows

jname
Punch
Reader
Console
Terminal

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Query #12c.

```
SELECT jname FROM job WHERE city not in ('Paris', 'London')
```

Result:4 rows

jname
Punch
Reader
Console
Terminal

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Query #13.

```
SELECT pname, qty FROM part, spj WHERE part.pno = spj.pno
```

Result:2 4rows

pname	q t y
Nut	200
Nut	700
Screw	400
Screw	200
Screw	200
Screw	500
Screw	600
Screw	400
Screw	800
Cam	100
Screw	200
Screw	500
Cog	300
Cog	300
Bolt	200
Bolt	100
Cam	500
Cam	100
Cog	200
Nut	100
Screw	200
Screw	800
Cam	400
Cog	500

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Query #14.

```
SELECT a.city first, b.city second FROM supplier a, job b, spj c  
WHERE a.sno = c.sno AND b.jno = c.jno
```

Result:2 4rows

first	second
London	Paris
London	Athens

Paris	Paris
Paris	Rome
Paris	Athens
Paris	Athens
Paris	London
Paris	Oslo
Paris	London
Paris	Rome
Paris	Paris
Paris	Rome
London	Athens
London	London
Athens	Athens
Athens	Rome
Athens	Athens
Athens	Athens
Athens	Athens
Athens	Athens
Athens	Athens
Athens	London
Athens	London
Athens	Rome
Athens	Athens

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Query #15.

```
SELECT a.city first, pno, b.city second FROM supplier a, job b,
spj c WHERE a.sno = c.sno AND b.jno = c.jno
```

Result:2 4rows

first	pno	second
London	P1	Paris
London	P1	Athens
Paris	P3	Paris
Paris	P3	Rome
Paris	P3	Athens
Paris	P3	Athens
Paris	P3	London
Paris	P3	Oslo
Paris	P3	London
Paris	P5	Rome
Paris	P3	Paris
Paris	P4	Rome
London	P6	Athens
London	P6	London
Athens	P1	Athens
Athens	P2	Rome
Athens	P2	Athens
Athens	P3	Athens

Athens	P4	Athens
Athens	P5	Athens
Athens	P5	London
Athens	P5	London
Athens	P6	Rome
Athens	P6	Athens

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Query #16.

```
SELECT a.sno, b.sno FROM supplier a, supplier b WHERE a.city =
b.city AND a.sno < b.sno
```

Result:2 rows

sno
S4
S3

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Query #17.

```
SELECT * FROM spj, part
```

Result:144rows

sno	pno	jno	shipDate	qty	pname	color	weight	city	price
S1	P1	J1	0000-00-00 00:00:00	200	Nut	Red	12	London	0.07
S1	P2	J1	0000-00-00 00:00:00	200	Bolt	Green	17	Paris	0.12
S1	P3	J1	0000-00-00 00:00:00	200	Screw	Blue	17	Rome	0.05
S1	P4	J1	0000-00-00 00:00:00	200	Screw	Red	14	London	0.02
S1	P5	J1	0000-00-00 00:00:00	200	Cam	Blue	12	Paris	1.19
S1	P6	J1	0000-00-00 00:00:00	200	Cog	Red	19	London	2.03
S1	P1	J4	0000-00-00 00:00:00	700	Nut	Red	12	London	0.07
S1	P2	J4	0000-00-00 00:00:00	700	Bolt	Green	17	Paris	0.12
S1	P3	J4	0000-00-00 00:00:00	700	Screw	Blue	17	Rome	0.05
S1	P4	J4	0000-00-00 00:00:00	700	Screw	Red	14	London	0.02
S1	P5	J4	0000-00-00 00:00:00	700	Cam	Blue	12	Paris	1.19
S1	P6	J4	0000-00-00 00:00:00	700	Cog	Red	19	London	2.03
S2	P1	J1	0000-00-00 00:00:00	400	Nut	Red	12	London	0.07
S2	P2	J1	0000-00-00 00:00:00	400	Bolt	Green	17	Paris	0.12
S2	P3	J1	0000-00-00 00:00:00	400	Screw	Blue	17	Rome	0.05
S2	P4	J1	0000-00-00 00:00:00	400	Screw	Red	14	London	0.02
S2	P5	J1	0000-00-00 00:00:00	400	Cam	Blue	12	Paris	1.19
S2	P6	J1	0000-00-00 00:00:00	400	Cog	Red	19	London	2.03
S2	P1	J2	0000-00-00 00:00:00	200	Nut	Red	12	London	0.07
S2	P2	J2	0000-00-00 00:00:00	200	Bolt	Green	17	Paris	0.12
S2	P3	J2	0000-00-00 00:00:00	200	Screw	Blue	17	Rome	0.05
S2	P4	J2	0000-00-00 00:00:00	200	Screw	Red	14	London	0.02
S2	P5	J2	0000-00-00 00:00:00	200	Cam	Blue	12	Paris	1.19
S2	P6	J2	0000-00-00 00:00:00	200	Cog	Red	19	London	2.03
S2	P1	J3	0000-00-00 00:00:00	200	Nut	Red	12	London	0.07

S2	P2	J3	0000-00-00 00:00:00	200	Bolt	Green	17	Paris	0.12
S2	P3	J3	0000-00-00 00:00:00	200	Screw	Blue	17	Rome	0.05
S2	P4	J3	0000-00-00 00:00:00	200	Screw	Red	14	London	0.02
S2	P5	J3	0000-00-00 00:00:00	200	Cam	Blue	12	Paris	1.19
S2	P6	J3	0000-00-00 00:00:00	200	Cog	Red	19	London	2.03
S2	P1	J4	0000-00-00 00:00:00	500	Nut	Red	12	London	0.07
S2	P2	J4	0000-00-00 00:00:00	500	Bolt	Green	17	Paris	0.12
S2	P3	J4	0000-00-00 00:00:00	500	Screw	Blue	17	Rome	0.05
S2	P4	J4	0000-00-00 00:00:00	500	Screw	Red	14	London	0.02
S2	P5	J4	0000-00-00 00:00:00	500	Cam	Blue	12	Paris	1.19
S2	P6	J4	0000-00-00 00:00:00	500	Cog	Red	19	London	2.03
S2	P1	J5	0000-00-00 00:00:00	600	Nut	Red	12	London	0.07
S2	P2	J5	0000-00-00 00:00:00	600	Bolt	Green	17	Paris	0.12
S2	P3	J5	0000-00-00 00:00:00	600	Screw	Blue	17	Rome	0.05
S2	P4	J5	0000-00-00 00:00:00	600	Screw	Red	14	London	0.02
S2	P5	J5	0000-00-00 00:00:00	600	Cam	Blue	12	Paris	1.19
S2	P6	J5	0000-00-00 00:00:00	600	Cog	Red	19	London	2.03
S2	P1	J6	0000-00-00 00:00:00	400	Nut	Red	12	London	0.07
S2	P2	J6	0000-00-00 00:00:00	400	Bolt	Green	17	Paris	0.12
S2	P3	J6	0000-00-00 00:00:00	400	Screw	Blue	17	Rome	0.05
S2	P4	J6	0000-00-00 00:00:00	400	Screw	Red	14	London	0.02
S2	P5	J6	0000-00-00 00:00:00	400	Cam	Blue	12	Paris	1.19
S2	P6	J6	0000-00-00 00:00:00	400	Cog	Red	19	London	2.03
S2	P1	J7	0000-00-00 00:00:00	800	Nut	Red	12	London	0.07
S2	P2	J7	0000-00-00 00:00:00	800	Bolt	Green	17	Paris	0.12
S2	P3	J7	0000-00-00 00:00:00	800	Screw	Blue	17	Rome	0.05
S2	P4	J7	0000-00-00 00:00:00	800	Screw	Red	14	London	0.02
S2	P5	J7	0000-00-00 00:00:00	800	Cam	Blue	12	Paris	1.19
S2	P6	J7	0000-00-00 00:00:00	800	Cog	Red	19	London	2.03
S2	P1	J2	0000-00-00 00:00:00	100	Nut	Red	12	London	0.07
S2	P2	J2	0000-00-00 00:00:00	100	Bolt	Green	17	Paris	0.12
S2	P3	J2	0000-00-00 00:00:00	100	Screw	Blue	17	Rome	0.05
S2	P4	J2	0000-00-00 00:00:00	100	Screw	Red	14	London	0.02
S2	P5	J2	0000-00-00 00:00:00	100	Cam	Blue	12	Paris	1.19
S2	P6	J2	0000-00-00 00:00:00	100	Cog	Red	19	London	2.03
S3	P1	J1	0000-00-00 00:00:00	200	Nut	Red	12	London	0.07
S3	P2	J1	0000-00-00 00:00:00	200	Bolt	Green	17	Paris	0.12
S3	P3	J1	0000-00-00 00:00:00	200	Screw	Blue	17	Rome	0.05
S3	P4	J1	0000-00-00 00:00:00	200	Screw	Red	14	London	0.02
S3	P5	J1	0000-00-00 00:00:00	200	Cam	Blue	12	Paris	1.19
S3	P6	J1	0000-00-00 00:00:00	200	Cog	Red	19	London	2.03
S3	P1	J2	0000-00-00 00:00:00	500	Nut	Red	12	London	0.07
S3	P2	J2	0000-00-00 00:00:00	500	Bolt	Green	17	Paris	0.12
S3	P3	J2	0000-00-00 00:00:00	500	Screw	Blue	17	Rome	0.05
S3	P4	J2	0000-00-00 00:00:00	500	Screw	Red	14	London	0.02
S3	P5	J2	0000-00-00 00:00:00	500	Cam	Blue	12	Paris	1.19
S3	P6	J2	0000-00-00 00:00:00	500	Cog	Red	19	London	2.03

S4	P1	J3	0000-00-00 00:00:00	300	Nut	Red	12	London	0.07
S4	P2	J3	0000-00-00 00:00:00	300	Bolt	Green	17	Paris	0.12
S4	P3	J3	0000-00-00 00:00:00	300	Screw	Blue	17	Rome	0.05
S4	P4	J3	0000-00-00 00:00:00	300	Screw	Red	14	London	0.02
S4	P5	J3	0000-00-00 00:00:00	300	Cam	Blue	12	Paris	1.19
S4	P6	J3	0000-00-00 00:00:00	300	Cog	Red	19	London	2.03
S4	P1	J7	0000-00-00 00:00:00	300	Nut	Red	12	London	0.07
S4	P2	J7	0000-00-00 00:00:00	300	Bolt	Green	17	Paris	0.12
S4	P3	J7	0000-00-00 00:00:00	300	Screw	Blue	17	Rome	0.05
S4	P4	J7	0000-00-00 00:00:00	300	Screw	Red	14	London	0.02
S4	P5	J7	0000-00-00 00:00:00	300	Cam	Blue	12	Paris	1.19
S4	P6	J7	0000-00-00 00:00:00	300	Cog	Red	19	London	2.03
S5	P1	J2	0000-00-00 00:00:00	200	Nut	Red	12	London	0.07
S5	P2	J2	0000-00-00 00:00:00	200	Bolt	Green	17	Paris	0.12
S5	P3	J2	0000-00-00 00:00:00	200	Screw	Blue	17	Rome	0.05
S5	P4	J2	0000-00-00 00:00:00	200	Screw	Red	14	London	0.02
S5	P5	J2	0000-00-00 00:00:00	200	Cam	Blue	12	Paris	1.19
S5	P6	J2	0000-00-00 00:00:00	200	Cog	Red	19	London	2.03
S5	P1	J4	0000-00-00 00:00:00	100	Nut	Red	12	London	0.07
S5	P2	J4	0000-00-00 00:00:00	100	Bolt	Green	17	Paris	0.12
S5	P3	J4	0000-00-00 00:00:00	100	Screw	Blue	17	Rome	0.05
S5	P4	J4	0000-00-00 00:00:00	100	Screw	Red	14	London	0.02
S5	P5	J4	0000-00-00 00:00:00	100	Cam	Blue	12	Paris	1.19
S5	P6	J4	0000-00-00 00:00:00	100	Cog	Red	19	London	2.03
S5	P1	J5	0000-00-00 00:00:00	500	Nut	Red	12	London	0.07
S5	P2	J5	0000-00-00 00:00:00	500	Bolt	Green	17	Paris	0.12
S5	P3	J5	0000-00-00 00:00:00	500	Screw	Blue	17	Rome	0.05
S5	P4	J5	0000-00-00 00:00:00	500	Screw	Red	14	London	0.02
S5	P5	J5	0000-00-00 00:00:00	500	Cam	Blue	12	Paris	1.19
S5	P6	J5	0000-00-00 00:00:00	500	Cog	Red	19	London	2.03
S5	P1	J7	0006-06-00 00:00:00	100	Nut	Red	12	London	0.07
S5	P2	J7	0006-06-00 00:00:00	100	Bolt	Green	17	Paris	0.12
S5	P3	J7	0006-06-00 00:00:00	100	Screw	Blue	17	Rome	0.05
S5	P4	J7	0006-06-00 00:00:00	100	Screw	Red	14	London	0.02
S5	P5	J7	0006-06-00 00:00:00	100	Cam	Blue	12	Paris	1.19
S5	P6	J7	0006-06-00 00:00:00	100	Cog	Red	19	London	2.03
S5	P1	J2	0009-07-00 00:00:00	200	Nut	Red	12	London	0.07
S5	P2	J2	0009-07-00 00:00:00	200	Bolt	Green	17	Paris	0.12
S5	P3	J2	0009-07-00 00:00:00	200	Screw	Blue	17	Rome	0.05
S5	P4	J2	0009-07-00 00:00:00	200	Screw	Red	14	London	0.02
S5	P5	J2	0009-07-00 00:00:00	200	Cam	Blue	12	Paris	1.19
S5	P6	J2	0009-07-00 00:00:00	200	Cog	Red	19	London	2.03
S5	P1	J4	0000-00-00 00:00:00	100	Nut	Red	12	London	0.07
S5	P2	J4	0000-00-00 00:00:00	100	Bolt	Green	17	Paris	0.12
S5	P3	J4	0000-00-00 00:00:00	100	Screw	Blue	17	Rome	0.05
S5	P4	J4	0000-00-00 00:00:00	100	Screw	Red	14	London	0.02
S5	P5	J4	0000-00-00 00:00:00	100	Cam	Blue	12	Paris	1.19

S5	P6	J4	0000-00-00 00:00:00	100	Cog	Red	19	London	2.03
S5	P1	J4	0000-00-00 00:00:00	200	Nut	Red	12	London	0.07
S5	P2	J4	0000-00-00 00:00:00	200	Bolt	Green	17	Paris	0.12
S5	P3	J4	0000-00-00 00:00:00	200	Screw	Blue	17	Rome	0.05
S5	P4	J4	0000-00-00 00:00:00	200	Screw	Red	14	London	0.02
S5	P5	J4	0000-00-00 00:00:00	200	Cam	Blue	12	Paris	1.19
S5	P6	J4	0000-00-00 00:00:00	200	Cog	Red	19	London	2.03
S5	P1	J4	0000-00-00 00:00:00	800	Nut	Red	12	London	0.07
S5	P2	J4	0000-00-00 00:00:00	800	Bolt	Green	17	Paris	0.12
S5	P3	J4	0000-00-00 00:00:00	800	Screw	Blue	17	Rome	0.05
S5	P4	J4	0000-00-00 00:00:00	800	Screw	Red	14	London	0.02
S5	P5	J4	0000-00-00 00:00:00	800	Cam	Blue	12	Paris	1.19
S5	P6	J4	0000-00-00 00:00:00	800	Cog	Red	19	London	2.03
S5	P1	J4	0000-00-00 00:00:00	400	Nut	Red	12	London	0.07
S5	P2	J4	0000-00-00 00:00:00	400	Bolt	Green	17	Paris	0.12
S5	P3	J4	0000-00-00 00:00:00	400	Screw	Blue	17	Rome	0.05
S5	P4	J4	0000-00-00 00:00:00	400	Screw	Red	14	London	0.02
S5	P5	J4	0000-00-00 00:00:00	400	Cam	Blue	12	Paris	1.19
S5	P6	J4	0000-00-00 00:00:00	400	Cog	Red	19	London	2.03
S5	P1	J4	0007-08-00 00:00:00	500	Nut	Red	12	London	0.07
S5	P2	J4	0007-08-00 00:00:00	500	Bolt	Green	17	Paris	0.12
S5	P3	J4	0007-08-00 00:00:00	500	Screw	Blue	17	Rome	0.05
S5	P4	J4	0007-08-00 00:00:00	500	Screw	Red	14	London	0.02
S5	P5	J4	0007-08-00 00:00:00	500	Cam	Blue	12	Paris	1.19
S5	P6	J4	0007-08-00 00:00:00	500	Cog	Red	19	London	2.03

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Query #18.

```
SELECT sname, pname, jname, qty FROM supplier a, part b, job c,
spj d WHERE a.sno = d.sno AND b.pno = d.pno AND c.jno = d.jno
```

Result:2 4rows

sname	pname	jname	qty
Smith	Nut	Sorter	200
Smith	Nut	Console	700
Jones	Screw	Sorter	400
Jones	Screw	Punch	200
Jones	Screw	Reader	200
Jones	Screw	Console	500
Jones	Screw	Collator	600
Jones	Screw	Terminal	400
Jones	Screw	Tape	800
Jones	Cam	Punch	100
Blake	Screw	Sorter	200
Blake	Screw	Punch	500
Clark	Cog	Reader	300
Clark	Cog	Tape	300

Adams	Nut	Console	100
Adams	Bolt	Punch	200
Adams	Bolt	Console	100
Adams	Screw	Console	200
Adams	Screw	Console	800
Adams	Cam	Console	400
Adams	Cam	Collator	500
Adams	Cam	Tape	100
Adams	Cog	Punch	200
Adams	Cog	Console	500

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Query #19.

```
SELECT distinct a.jno FROM spj a, spj b WHERE a.pno = b.pno AND
a.jno = b.jno AND a.sno != b.sno
```

Result:2 rows

jno
J4
J1

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Query #20.

```
SELECT distinct jname FROM job WHERE jno in (SELECT jno FROM spj
WHERE sno = 'S1')
```

Result:2 rows

jname
Sorter
Console

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Query #21.

```
SELECT distinct sno FROM spj WHERE jno = 'J1' AND pno in (SELECT
pno FROM part WHERE color = 'Red')
```

Result:1 rows

sno
S1

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Query #22a.

```
SELECT distinct pno FROM spj WHERE jno in (SELECT jno FROM job
WHERE city = 'London')
```

Result:3 rows

pno
P3
P6
P5

Query #22b.

```
SELECT distinct pno FROM spj a, job b WHERE a.jno = b.jno AND city = 'London'
```

Result:3 rows

pno
P3
P6
P5

Query #23.

```
SELECT distinct sno FROM spj WHERE jno in (SELECT jno FROM job WHERE city = 'London' OR city = 'Paris') AND pno in (SELECT pno FROM part WHERE color = 'Red')
```

Result:2 rows

sno
S1
S4

Query #24.

```
SELECT distinct sno FROM spj WHERE pno in (SELECT pno FROM spj WHERE sno in (SELECT sno FROM spj WHERE pno in (SELECT pno FROM part WHERE color = 'Red'))))
```

Result:5 rows

sno
S1
S2
S3
S4
S5

Query #25a.

```
SELECT distinct sno FROM spj WHERE jno = 'J1' AND sno in (SELECT sno FROM spj WHERE jno = 'J2')
```

Result:2 rows

sno
S2
S3

Query #25b.

```
SELECT distinct a.sno FROM spj a, spj b WHERE a.sno = b.sno AND a.jno = 'J1' AND b.jno = 'J2';
```

Result:2 rows

|--|

sno
S2
S3

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Query #26.

```
SELECT pname FROM part WHERE pname like 'C%'
```

Result:2 rows

pname
Cam
Cog

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Query #27.

```
SELECT sname FROM supplier WHERE sname like '__a%'
```

Result:3 rows

sname
Blake
Clark
Adams

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Query #28.

```
SELECT pname FROM part WHERE color in ('Red', 'Pink', 'Blue')
```

Result:5 rows

pname
Nut
Screw
Screw
Cam
Cog

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Query #29.

```
SELECT pname FROM part WHERE price between 1.00 AND 2.00
```

Result:1 rows

pname
Cam

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Query #30.

```
SELECT MAX(price) FROM part
```

Result:1 rows

MAX(price)
2.03

Query #31.

```
SELECT jno, COUNT(distinct pno) FROM spj GROUP BY jno
```

Result:7 rows

jno	COUNT(distinct pno)
J1	2
J2	5
J3	2
J4	6
J5	2
J6	1
J7	3

Query #32.

```
SELECT pno, SUM(qty) FROM spj GROUP BY pno
```

Result:6 rows

pno	SUM(qty)
P1	1000
P2	300
P3	3500
P4	1300
P5	1100
P6	1300

Query #33.

```
SELECT jno FROM spj GROUP BY jno having SUM(qty) > 1000
```

Result:4 rows

jno
J2
J4
J5
J7

Query #34a.

```
SELECT distinct a.sno FROM spj a, spj b WHERE a.sno = b.sno AND a.jno = b.jno AND a.jno= 'J2' AND a.pno <> b.pno
```

Result:2 rows

sno
S2
S5

Query #34b.

```
SELECT sno FROM spj WHERE jno = 'J2' GROUP BY sno having
COUNT(pno) > 1;
```

Result:2 rows

sno
S2
S5

*blog.galaxycloud.vn***Query #35.**

```
SELECT pname, weight FROM part order by weight DESC
```

Result:6 rows

pname	weight
Cog	19
Bolt	17
Screw	17
Screw	14
Nut	12
Cam	12

*blog.galaxycloud.vn***Query #36.**

```
SELECT pno, SUM(qty) FROM spj GROUP BY pno order by SUM(qty)
```

Result:6 rows

pno	SUM(qty)
P2	300
P1	1000
P5	1100
P4	1300
P6	1300
P3	3500

*blog.galaxycloud.vn***Query #37a.**

```
SELECT COUNT(*) FROM (SELECT (COUNT(distinct jno)) FROM spj GROUP
BY jno having SUM(qty) > 1000) AS tbl
```

Result:1 rows

COUNT(*)
4

*blog.galaxycloud.vn***Query #37b.**

```
SELECT COUNT(*) FROM (SELECT jno FROM spj GROUP BY jno having
SUM(qty) > 1000) AS tbl
```

Result:1 rows

COUNT(*)
4

Query #38.

```
SELECT pname, SUM(qty) FROM part a, spj b WHERE a.pno = b.pno
GROUP BY pname, a.pno order by SUM(qty) DESC
```

Result:6 rows

pname	SUM(qty)
Screw	3500
Screw	1300
Cog	1300
Cam	1100
Nut	1000
Bolt	300

Query #39.

```
SELECT c.jname job, SUM(a.qty*b.price) cost FROM spj a, part b,
job c WHERE a.pno = b.pno AND a.jno = c.jno GROUP BY c.jname
```

Result:7 rows

job	cost
Collator	625.00
Console	1610.00
Punch	569.00
Reader	619.00
Sorter	44.00
Tape	768.00
Terminal	20.00

Query #40.

```
SELECT c.jname job FROM spj a, part b, job c WHERE a.pno = b.pno
AND a.jno = c.jno GROUP BY c.jname having SUM(a.qty*b.price) =
(SELECT MAX(tmp) FROM (SELECT SUM(d.qty*e.price) AS tmp FROM spj
d, part e WHERE d.pno = e.pno GROUP BY d.jno) AS t1)
```

Result:1 rows

job
Console

Các lệnh tạo bảng:

```
create table supplier
(sno char(2) PRIMARY KEY,
sname char(5),
status NUMERIC(2),
city char(6));
```

```
create table part
(pno char(2) PRIMARY KEY,
```

```

pname char(5),
color char(5),
weight NUMERIC(2),
city char(6),
price DECIMAL(10,2) );

create table job
(jno char(2) PRIMARY KEY,
jname char(8),
city char(6));

create table spj
(sno char(2),
pno char(2),
jno char(2),
shipDate datetime,
qty NUMERIC(3),
PRIMARY KEY(sno,pno,jno));

insert into supplier VALUES ('S1','Smith',20,'London');
insert into supplier values ('S2','Jones',10,'Paris');
insert into supplier values ('S3','Blake',30,'Paris');
insert into supplier values ('S4','Clark',20,'London');
insert into supplier values ('S5','Adams',30,'Athens');

insert into part values ('P1','Nut','Red',12,'London', 0.07);
insert into part values ('P2','Bolt','Green',17,'Paris', 0.12);
insert into part values ('P3','Screw','Blue',17,'Rome', 0.05);
insert into part values ('P4','Screw','Red',14,'London', 0.02);
insert into part values ('P5','Cam','Blue',12,'Paris', 1.19);
insert into part values ('P6','Cog','Red',19,'London', 2.03);

insert into job values ('J1','Sorter','Paris');
insert into job values ('J2','Punch','Rome');
insert into job values ('J3','Reader','Athens');
insert into job values ('J4','Console','Athens');
insert into job values ('J5','Collator','London');
insert into job values ('J6','Terminal','Oslo');
insert into job values ('J7','Tape','London');

insert into spj values ('S1','P1','J1','3/3/99',200);
insert into spj values ('S1','P1','J4','4/4/88',700);
insert into spj values ('S2','P3','J1','6/6/88',400);
insert into spj values ('S2','P3','J2','8/8/99',200);
insert into spj values ('S2','P3','J3','7/7/77',200);
insert into spj values ('S2','P3','J4','8/9/99',500);
insert into spj values ('S2','P3','J5','8/7/99',600);
insert into spj values ('S2','P3','J6','8/7/89',400);
insert into spj values ('S2','P3','J7','8/7/89',800);
insert into spj values ('S2','P5','J2','8/8/88',100);
insert into spj values ('S3','P3','J1','9/9/99',200);
insert into spj values ('S3','P4','J2','9/8/99',500);
insert into spj values ('S4','P6','J3','9/8/99',300);
insert into spj values ('S4','P6','J7','9/9/99',300);
insert into spj values ('S5','P2','J2','9/8/99',200);
insert into spj values ('S5','P2','J4','9/8/99',100);
insert into spj values ('S5','P5','J5','7/8/99',500);
insert into spj values ('S5','P5','J7','6/6/00',100);
insert into spj values ('S5','P6','J2','9/7/00',200);
insert into spj values ('S5','P1','J4','9/8/88',100);
insert into spj values ('S5','P3','J4','7/8/99',200);
insert into spj values ('S5','P4','J4','8/8/99',800);
insert into spj values ('S5','P5','J4','7/8/99',400);
insert into spj values ('S5','P6','J4','7/8/00',500);

```

Tham khảo:

<https://blog.galaxycloud.vn/toan-tap-ve-lenh-query-select-sql.22068.news>