```
CREATE TABLE suppliers (sno VARCHAR(4) PRIMARY KEY, sname VARCHAR(20),
status DECIMAL(5,2), scity VARCHAR(10));
CREATE TABLE parts(pno VARCHAR(4) PRIMARY KEY, pname VARCHAR(20), color
VARCHAR(10), weight DECIMAL(7,2), city VARCHAR(15));
CREATE TABLE project (jno VARCHAR (4) PRIMARY KEY, jname VARCHAR (20), jcity
VARCHAR (15));
CREATE TABLE shipment (sno VARCHAR (4) PRIMARY KEY, pno VARCHAR (4), jno
VARCHAR(4), qty VARCHAR(8));
INSERT INTO suppliers VALUES
     ('s1', 'Ajay', 30.00, 'Paris'),
     ('s2', 'Nancy', 20.00, 'London'),
     ('s3', 'Ram', 40.00, 'New York'),
     ('s4', 'Isha', 70.00, 'Paris'),
     ('s5', 'Ayush', 30.00, 'Delhi'),
     ('s6', 'Hema', 10.00, 'Chennai'),
     ('s7', 'Seema', 45.00, 'London'),
     ('s8', 'Riya', 23.00, 'Ontario');
INSERT INTO parts VALUES
     ('P1', 'A', 'red', 7.00, 'Paris'),
     ('P2', 'B', 'blue', 20.00, 'London'),
     ('P3', 'C', 'green', 17.00, 'New York'),
     ('P4', 'D', 'black', 21.00, 'Paris'),
     ('P5', 'E', 'red', 9.00, 'Ontario'),
     ('P6', 'F', 'grey', 10.00, 'Delhi'),
     ('P7', 'G', 'silver', 18.00, 'Chennai'),
     ('P8', 'H', 'red', 7.00, 'Delhi');
INSERT INTO project VALUES
     ('J1', 'J', 'Chennai'),
     ('J2', 'K', 'London'),
     ('J3', 'L', 'Paris'),
     ('J4', 'M', 'Ontario'),
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('J5', 'N', 'Delhi'),

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('J6', 'O', 'Chennai'),
     ('J7', 'P', 'London'),
     ('J8', 'Q', 'New York');
INSERT INTO shipment VALUES
    ('s1', 'P1', 'J1', '400'),
     ('s2', 'P2', 'J2', '500'),
    ('s3', 'P3', 'J3', '350'),
    ('s4', 'P4', 'J4', '100'),
     ('s5', 'P5', 'J5', '200'),
    ('s6', 'P6', 'J6', '600'),
    ('s7', 'P7', 'J7', '700'),
     ('s8', 'P8', 'J8', '250');
ALTER TABLE shipment ADD FOREIGN KEY (sno) REFERENCES suppliers (sno);
ALTER TABLE shipment ADD FOREIGN KEY (pno) REFERENCES parts (pno);
ALTER TABLE shipment ADD FOREIGN KEY (jno) REFERENCES project(jno);
  a. Primary Keys: Suppliers (SNo), Parts (PNo), Project (JNo)
    Foreign Keys: Shipment (SNo, PNo, JNo)
  b. SELECT sno FROM suppliers WHERE scity = 'Paris' AND status > 20;
    +----+
    | sno |
    +----+
    | s1 |
    | s4 |
    +----+
  c. SELECT suppliers.* FROM suppliers JOIN shipment ON shipment.pno = 'P2'
    AND shipment.sno = suppliers.sno ORDER BY suppliers.sno ;
    +----+
    | sno | sname | status | scity |
    +----+
    | s2 | Nancy | 20.00 | London |
    +----+
```

+-		+-		-+-		+-		+
1		•		•	status	•	scity	 -
+-		Τ.		-+-		-+-		+
١	s1	ı	Ajay	1	30.00	١	Paris	١
1	s3	I	Ram	1	40.00	1	New York	I
١	s4	١	Isha	1	70.00	١	Paris	١
١	s5	١	Ayush	١	30.00	١	Delhi	١
١	s6	١	Hema	1	10.00	١	Chennai	١
١	s7	١	Seema	١	45.00	١	London	١
١	s8	١	Riya	١	23.00	١	Ontario	١
+-		+-		-+-		+-		+

e. SELECT suppliers.*, parts.*, project.*, shipment.qty * parts.weight AS
 total_wt FROM suppliers, parts, project, shipment WHERE shipment.sno =
 suppliers.sno AND shipment.pno = parts.pno AND shipment.jno =
 project.jno;

ı	sno	•	İ	status	İ	scity	ı	pno	İ	pname	İ	color	İ	weight	l		İ	jno	ı	jname	İ	jcity	l t	otal_wt	İ
	s1	Ajay	i			Paris		P1				red	i	7.00						J		Chennai	i	2800	i
- 1	s2	Nancy	I	20.00	ı	London	1	P2	ı	В	ı	blue	ı	20.00	ı	London	ı	J2	ı	K	ı	London	1	10000	Τ
- 1	s3	Ram	ı	40.00	ı	New York	ı	Р3	ı	С	ı	green	ı	17.00	ı	New York	ı	J3	ı	L	ı	Paris	1	5950	Τ
- 1	s4	Isha	ı	70.00	ı	Paris	ı	P4	ı	D	ı	black	ı	21.00	ı	Paris	ı	J4	ı	M	ı	Ontario	1	2100	Τ
- 1	s5	Ayush	ı	30.00	ı	Delhi	ı	P5	ı	E	ı	red	ı	9.00	ı	Ontario	ı	J5	ı	N	ı	Delhi	1	1800	Τ
- 1	s6	Hema	ı	10.00	ı	Chennai	ı	P6	ı	F	ı	grey	ı	10.00	ı	Delhi	ı	J6	ı	0	ı	Chennai	1	6000	Τ
ı	s7	Seema	ı	45.00	ı	London	ı	P7	ı	G	ı	silver	ı	18.00	ı	Chennai	Ī	J7	ı	P	ı	London	ı	12600	Τ
ı	s8	Riya	I	23.00	١	Ontario	I	P8	I	н	I	red	I	7.00	I	Delhi	I	J8	I	Q	١	New York	I	1750	I
+		+	+-		+		-+-		+-		+-		+-		+-		+-		-+		+-		+		-+

f. SELECT * FROM shipment WHERE qty BETWEEN 300 AND 750;

+-		+.		-+-		+-		-+
I	sno	I	pno	1	jno	1	qty	ı
 	s1 s2 s3	 	P1 P2 P3	 	J1 J2 J3	 	400 500 350	
Ī	s6 s7	I		İ	Ј6 Ј7	İ	600 700	

q.SELECT DISTINCT parts.pno FROM parts JOIN shipment ON parts.pno = (SELECT pno FROM shipment WHERE sno='s2') AND parts.weight > 16; +----+ | pno | +----+ | P2 | +----+ h. SELECT DISTINCT scity FROM suppliers JOIN parts ON parts.color = 'red' AND suppliers.status > 5 AND suppliers.scity = parts.city; +----+ | scity | +----+ | Paris | | Ontario | | Delhi +----+ i. SELECT * FROM parts WHERE pno IN (SELECT pno FROM shipment WHERE sno IN (SELECT sno FROM suppliers WHERE scity = 'London')); +----+ | pno | pname | color | weight | city +----+ | P2 | B | blue | 20.00 | London | | P7 | G | silver | 18.00 | Chennai | +----+ j. SELECT pno FROM parts WHERE pno IN (SELECT pno FROM shipment WHERE sno IN (SELECT sno FROM suppliers WHERE scity = 'London') AND jno IN (SELECT jno FROM project WHERE jcity = 'London')); +----+ | pno | +----+ | P2 | | P7 | +----+

k. SELECT sno, COUNT(jno) FROM shipment GROUP BY sno;

+-		+		+
1	sno	COUNT	(jno)	1
	s1	1	1	т
1	s2	1	1	١
١	s3	1	1	١
١	s4	1	1	١
١	s5	1	1	١
١	s6	1	1	١
١	s7	1	1	١
١	s8	1	1	١
+-		+		+

1. SELECT shipment.sno, shipment.pno, shipment.qty*parts.weight AS
 total qty FROM shipment JOIN parts ON parts.pno = shipment.pno;

	_	•	_		_	
+-		+-		-+		+
1	sno	1	pno	- 1	total_qty	١
+-		+-		-+		+
ı	s1	ı	P1	ı	2800	ı
١	s2	١	P2	1	10000	١
١	s3	١	Р3	1	5950	١
١	s4	١	P4	1	2100	١
١	s5	١	P5	1	1800	١
١	s6	1	P6	- 1	6000	1
١	s7	1	P 7	- 1	12600	1
١	s8	١	P8	1	1750	١
+-		+-		-+		+