

Name : Gandhi , Pritesh

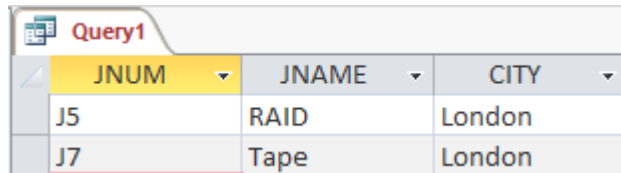
### Assignment 1

1. Get full details of all jobs in London.

Query :

```
SELECT *  
FROM JOB  
WHERE CITY='London';
```

Result :



JNUM	JNAME	CITY
J5	RAID	London
J7	Tape	London

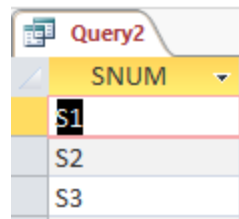
Cardinality : Record: 1 of 2

2. Get supplier numbers for suppliers who ship to job J1.

Query :

```
SELECT SNUM  
FROM SHIPMENT  
WHERE JNUM='J1';
```

Result :



SNUM
S1
S2
S3

Cardinality : Record: 1 of 3

3. Get all shipments where the quantity is in the range 300 to 750, inclusive.

Query:

```
SELECT *  
FROM SHIPMENT  
WHERE QTY >= 300 AND QTY <= 750;
```

Result :

Query3				
	SNUM	PNUM	JNUM	QTY
	S1	P1	J4	700
	S2	P3	J1	400
	S2	P3	J4	500
	S2	P3	J5	600
	S2	P3	J6	400
	S3	P4	J2	500
	S4	P6	J3	300
	S4	P6	J7	300
	S5	P5	J5	500
	S5	P5	J4	400
	S5	P6	J4	500

Cardinality :

Record: 1 of 11

4. Get all part-color/part-city combinations.

Query :

```
SELECT DISTINCT PART_COLOR.COLOR, PART_CITY.CITY  
FROM PART AS PART_COLOR, PART AS PART_CITY;
```

Result :

Query4	
COLOR	CITY
Blue	Paris
Blue	Rome
Green	Paris
Red	London

Cardinality :

Record: 1 of 4

5. Get all supplier-number/part-number/job-number triples such that the indicated supplier, part and job are all co-located.

Query :

```
SELECT DISTINCT S.SNUM, P.PNUM, J.JNUM
FROM SUPPLIER AS S, PART AS P, JOB AS J
WHERE S.CITY=P.CITY
AND P.CITY=J.CITY;
```

Result :

Query5			
	SNUM	PNUM	JNUM
	S1	P1	J5
	S1	P1	J7
	S1	P4	J5
	S1	P4	J7
	S1	P6	J5
	S1	P6	J7
	S2	P2	J1
	S2	P5	J1
	S3	P2	J1
	S3	P5	J1
	S4	P1	J5
	S4	P1	J7
	S4	P4	J5
	S4	P4	J7
	S4	P6	J5
	S4	P6	J7

Cardinality : Record: 14 1 of 16

6. Get all supplier-number/part-number/job-number triples such that the indicated supplier, part and job are not all co-located.

Query :

```
SELECT DISTINCT S.SNUM, P.PNUM, J.JNUM
FROM SUPPLIER AS S, PART AS P, JOB AS J
WHERE S.CITY<>P.CITY
OR J.CITY<>P.CITY;
```

Cardinality : Record: 14 1 of 194

7. Get all supplier-number/part-number/job-number triples such that no two of the indicated supplier, part and job are co-located.

Query :

```
SELECT DISTINCT S.SNUM, P.PNUM, J.JNUM
FROM SUPPLIER AS S, PART AS P, JOB AS J
WHERE S.CITY<>P.CITY
AND P.CITY<>J.CITY
AND S.CITY<>J.CITY;
```

Cardinality :

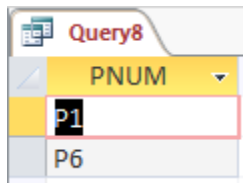
Record: 14 1 of 79

8. Get part numbers for parts shipped by a supplier in London.

Query :

```
SELECT DISTINCT SP.PNUM
FROM SHIPMENT AS SP, SUPPLIER AS S
WHERE SP.SNUM=S.SNUM
AND S.CITY='London';
```

Result :



PNUM
P1
P6

Cardinality :

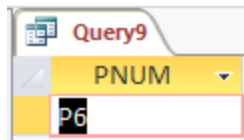
Record: 14 1 of 2

9. Get part numbers for parts shipped by a supplier in London to a job in London.

Query :

```
SELECT DISTINCT SP.PNUM
FROM SHIPMENT AS SP, JOB AS J, SUPPLIER AS S
WHERE SP.SNUM=S.SNUM
AND SP.JNUM=J.JNUM
AND J.CITY='London'
AND S.CITY='London';
```

Result :



PNUM
P6

Cardinality :

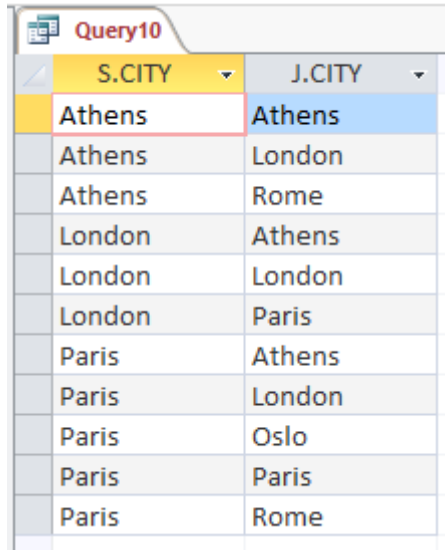
Record: 14 1 of 1

10. Get all pairs of city names such that a supplier in the first city ships to a job in the second city.

Query :

```
SELECT DISTINCT S.CITY, J.CITY
FROM SHIPMENT AS SP, SUPPLIER AS S, JOB AS J
WHERE SP.SNUM=S.SNUM
AND J.JNUM=SP.JNUM;
```

Result :



S.CITY	J.CITY
Athens	Athens
Athens	London
Athens	Rome
London	Athens
London	London
London	Paris
Paris	Athens
Paris	London
Paris	Oslo
Paris	Paris
Paris	Rome

Cardinality :



Record: 1 of 11