

Lab 2: Part I

Part I

1. Give, for each color of parts, the average QTY and the total QTY.

Statement:

```
SELECT AVG(QTY) AS Average, SUM(QTY) AS Total FROM shipment AS SP
JOIN parts AS P ON SP.PNO = P.PNO
WHERE P.COLOR IN (SELECT DISTINCT COLOR FROM parts)
GROUP BY P.COLOR;
```

Result:

	Average	Total
1	300	900
2	250	1000
3	240	1200

2. List parts (PNO and PName) not shipped by S1.

Statement:

```
SELECT PNO, PNAME FROM parts
WHERE PNO NOT IN (SELECT PNO FROM shipment WHERE SNO = 'S1');
```

Result:

PNO	PNAME
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3. List the part info (PNO and PName) of parts shipped by suppliers stationed in London.

Statement:

```
SELECT DISTINCT P.PNO, P.PNAME FROM parts AS P
JOIN shipment AS SP ON P.PNO = SP.PNO
JOIN supplier AS S ON SP.SNO = S.SNO
WHERE S.CITY = 'London';
```

Result:

	PNO	PNAME
1	P1	Nut
2	P2	Bolt
3	P3	Screw
4	P4	Screw
5	P5	Cam
6	P6	Cog