Lab 4 SQL

**I have given permission to all of you to access my three tables:**

**s(sno, sname, status, city)**

**p(pno, pname, colour, weight, city)**

**sp(sno, pno, qty)**

**s table refers to a table for supplier information, it contains information about supplier number, supplier name, supplier status and the city where the supplier locates. p table is a table for parts, it includes information such as part number , part name, part colour, part weight and the city where the part is stored. sp table records which supplier delivered which part and the quantity of the delivery.**

**You can access these tables by DOT notation:**

**ops$yyang00.s  
 ops$yyang00.p  
 ops$yyang00.sp**

**For example**

**select \* from ops$yyang00.s;**

**You can also see the table structure by**

**desc ops$yyang00.s;**

**In databases, you can copy record values from an existing table. For example, if we have a new table**

**Sp2(sno, pno, qty2)**

**qty2 represents modified quantity values. We can get the values in sp2 from sp:**

**insert into sp2 select sno, pno, qty-100 from sp;**

**Task:**

1. **Create the following tables with correct data types according to the aforementioned three tables**

**supplier\_qty(sno, max\_qty, min\_qty, avg\_qty, total\_qty)  
part\_qty(pno, max\_qty, min\_qty, avg\_qty, total\_qty)  
supplier\_analysis(sno, extra\_status)**

**Here, max\_qty is the maximum quantity, min\_qty refers to minim um quantity, avg\_qty represents the average quantity and total\_qty gives the total quantity of that group. The extra\_status means the extra status of this specific supplier compared with the average status. In supplier\_analysis table, we require only those suppliers whose status is greater than the average status.**

**Using the data in ops$yyang00.s, ops$yyang00.p and ops$yyang00.sp to populate supplier\_qty, part\_qty and supplier\_analysis table.**

1. **Do the following queries**
2. **List the total delivery quantity of those suppliers whose status is greater than the average status**
3. **List all supplier’s names whose maximum delivery is less than half of its total delivery**
4. **List the number of parts delivered with the maximum difference between its maximum quantity and minimum quantity**