

SUPPLIER - CASE STUDY

CREATE TABLES:

Supplier Master

<i>Column Name</i>	<i>Data Type</i>	<i>Remarks</i>
SID	Integer	Primary Key
NAME	Varchar (40)	NULL allowed
CITY	Char(6)	NOT NULL
GRADE	Tinyint	NOT NULL

Part Master

<i>Column Name</i>	<i>Data Type</i>	<i>Remarks</i>
PID	TinyInt	Primary Key
NAME	Varchar (40)	NULL allowed
PRICE	Money	NOT NULL
CATEGORY	Tinyint	NOT NULL
QTYONHAND	Integer	NULL

Supply Master

<i>Column Name</i>	<i>Data Type</i>	<i>Remarks</i>
PID	TinyInt	Foreign Key
SID	Integer	Foreign Key
DATEOFSUPPLY	DateTime	NOT NULL
CITY	Varchar(40)	NOT NULL
QTYSUPPLIED	Integer	NOT NULL

SELECT STATEMENTS:

1. List the month-wise average supply of parts supplied for all parts. Provide the information only if the average is higher than 20.
2. List the names of the Suppliers who do not supply part with PID '1'.
3. List the part id, name, price and difference between price and average price of all parts.
4. List the names of the suppliers who have supplied at least one part where the quantity supplied is lower than 10.
5. List the names of the suppliers who live in a city where no supply has been made.
6. List the names of the parts which have not been supplied in the month of May 2007.
7. List name and Price category for all parts. Price category has to be displayed as "Cheap" if price is less than 100, "Medium" if the price is greater than or

equal to 100 and less than 500, and "Costly" if the price is greater than or equal to 500.

8. List the most recent supply details with information on Product name, price and no. of days elapsed since the latest supply.
9. List the names of the suppliers who have supplied exactly 100 units of part P1.
10. List the names of the parts supplied by more than one supplier.
11. List the names of the parts whose price is less than the average price of parts.
12. List the category-wise number of parts; exclude those where the sum is > 100 and less than 500. List in the descending order of sum.
13. List the supplier name, part name and supplied quantity for all supplies made between 1st and 15th of June 2007.
14. For all products supplied by Supplier S1, List the part name and total quantity.
15. For the part with the minimum price, List the latest supply details (Supplier Name, Part id, Date of supply, Quantity Supplied).

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