**MNNIT ALLAHABAD**

**DBMS**

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| **SUBMITTED BY :**  **NAME : SHISHU**  **ROLL/REG ID : 2020CA089**  **SUBMIT DATE : 24/12/2021** | **SUBMITTED TO :**  **TEACHER \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **DEPPT : COMPUTER SCIENCE**  **DEADLINE: 24/12/2021** |

**Q.1.** A database is being constructed for storing sales information system. A product can be described with a unique product number, product name, selling price, manufacturer name. The product can sale to a particular client and each client have it own unique client number, client name, client addresses, city, pin code, state and total balance to be required to paid. Each client order is to buy product from the salesman. In the order, it has unique sales order number, sales order date,client number, salesman number (unique), billed whole payment by the party or not and its delivery date. The salesman have the name, addresses, city, pin code, state, salary of the sales man, delivery date, total quantity ordered, product rate.

The schema for the above is as below:-

**Product**(product\_id,product\_name,manufacturer\_name,product\_rate,sell\_price, product\_description)

CREATE TABLE product (p\_id int primary key, product\_name varchar(20), manufacturer\_name varchar(20), product\_rate double(5,2), sell\_price double(5,2), prod\_desc varchar(20))

**Client**(client\_id, client\_name, address, city, pin, state, balance\_due)

CREATE TABLE client (client\_id int primary key, client\_name varchar(20), address varchar(25), city varchar(20), pin varchar(7), state varchar(20), balance\_due double(5,2))

**Salesman**(salesman\_id, salesman\_name, address, city, pin, state, salary)

CREATE TABLE salesman (salesman\_id int primary key, salesman\_name varchar(20), address varchar(25), city varchar(20), pin varchar(7), state varchar(20), salary double(7,2))

**Sales\_order\_details**(sales\_order\_no, sales\_order\_date, client\_id,salesman\_id, bill\_payby\_party, delivery\_date, product\_rate, total\_quantity\_order, cancel\_date)

CREATE TABLE sales\_order\_details (sales\_order\_no int primary key, sales\_order\_date date, client\_id int references client(client\_id), salesman\_id int references salesman(salesman\_id), bill\_payby\_party varchar(5), delivery\_date date, product\_rate double(5,2), total\_quantity\_order int, cancel\_date date);

*Write the SQL queries for the following with respect to database created:–*

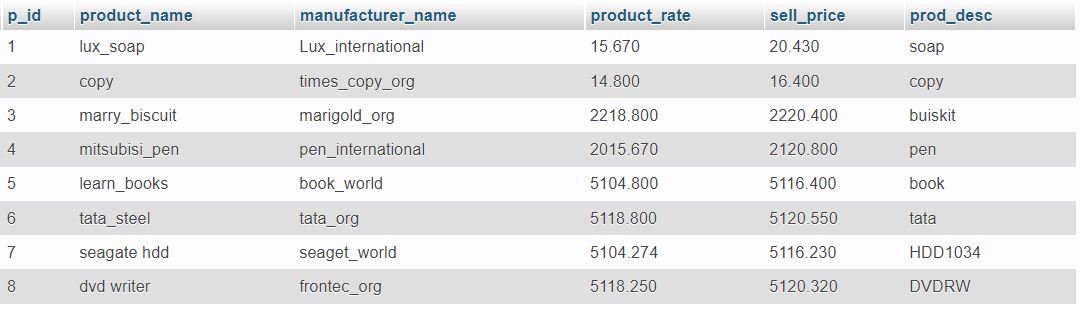
1. Retrieve the list of names and the cities of all the clients.

SELECT client\_name, city FROM client



1. List the various products available.

select \* from product



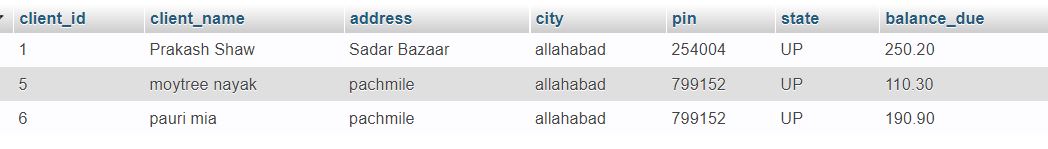
1. Find the names of all clients having ‘a’ as the second letter in their names.

SELECT client\_name FROM client WHERE client\_name like '\_a%'



1. List all the clients who are located in Allahabad.

SELECT \* FROM client WHERE city='allahabad'



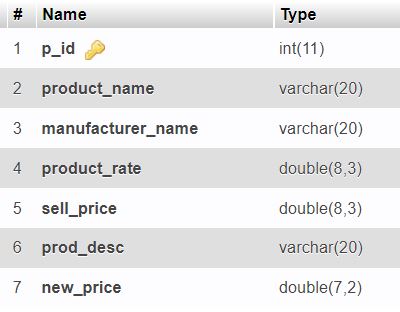
1. Find the products whose selling price is greater than 2000 and less than or equal to 5000

SELECT \* FROM product WHERE sell\_price>2000 AND (sell\_price<5000 OR sell\_price=5000)



1. Add a new column NEW\_PRICE into the produc table.

ALTER TABLE product add new\_price double(7,2)

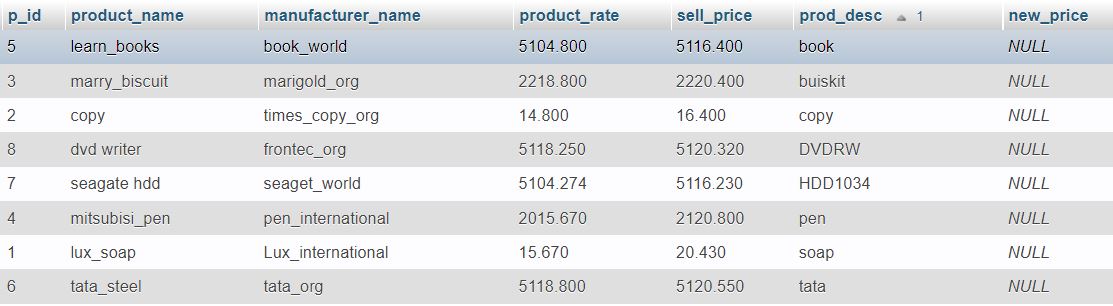


1. Rename the column P\_rate of Sales\_Order\_Details to new\_P\_rate.

ALTER table sales\_order\_details RENAME column product\_rate TO new\_product\_rate;

1. List the products in sorted order of their description**.**

SELECT \* FROM `product` ORDER BY prod\_desc



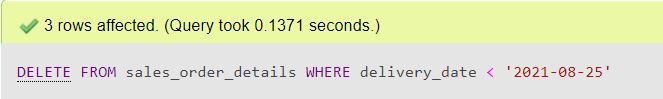
1. Display the order number and date on which the clients placed their order.

SELECT sales\_order\_no, sales\_order\_date FROM Sales\_Order\_Details



1. Delete all the records having delivery date before 25th August, 2021.

DELETE FROM sales\_order\_details WHERE delivery\_date < '2021-08-25'



1. Change the delivery date of order number **8** to 16-08-21

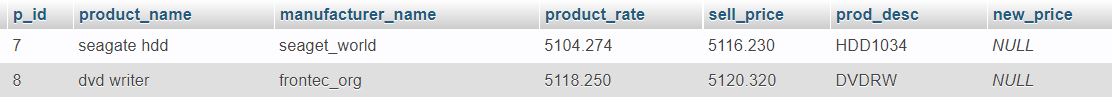
UPDATE sales\_order\_details SET delivery\_date = '2021-08-16' WHERE sales\_order\_no ='8'

1. Change the bal\_due of client\_no **3** to 1200

UPDATE client SET balance\_due = '1200' WHERE client\_id = '3'

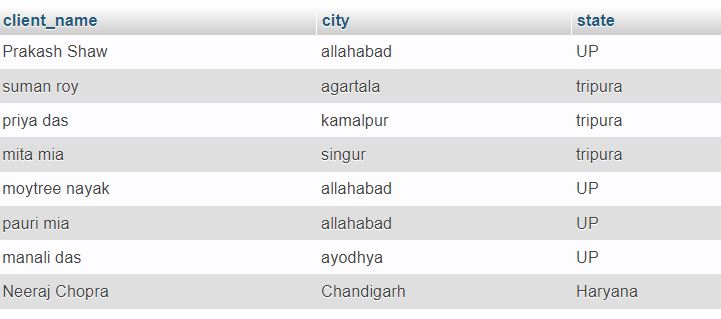
1. Find the product with description as ‘HDD1034’ and ‘DVDRW’

SELECT \* FROM product where prod\_desc='HDD1034' OR prod\_desc='DVDRW'



1. List the names, city and state of the clients not in the state of ‘ASSAM’

SELECT client\_name,city,state FROM client WHERE NOT state ='assam'



1. List of all orders that were cancelled in the month of March.

Select \* from sales\_order\_details where cancel\_date LIKE '%-03-%'

