Consider the following database and display the output along with the SQL query.

```
Customer (c_no, c_name, c_address, c_contact)

Purchase (pur id, c no, p id)
```

Product (p_id, p_name, price, quantity)

- a. Find the names of all products having price 1000.
- b. Find the name of those customers who purchased Dell Laptop.
- c. Find the total number of products purchased by customer "Ram".
- d. Increase price of all products by 5%.
- e. Find total price of Apple Mobiles.

Creation of Tables:

```
SQL Query:
```

```
c no INT,
      p id INT,
      FOREIGN KEY (c no) REFERENCES customer (c no)
      FOREIGN KEY (p id) REFERENCES product (p id)
);
Insertion of Data:
SQL Query:
Insert into customer (c no, c name, c address, c contact)
Values
      (7901, "Ram", "Kathmandu", "9812345678"),
      (7902, "Shyam", "Lalitpur", "9887654321"),
      (7903, "Hari", "Bhaktapur", "9878123456");
Insert into product (p id, p name, price, quantity)
Values
      (9001, "Dell Laptop", 80000, 10),
      (9002, "Apple Mobile", 150000, 5),
      (9003, "Samsung Mobile", 100000, 3),
      (9004, "Earphone", 1000, 8);
Insert into purchase (pur id, c no, p id)
Values
      (2001, 7901, 9001),
      (2002, 7901, 9002),
      (2003, 7902, 9004);
      (2004, 7903, 9003);
```

Table after Insertion of Data:

```
mysql> select * from product;
                           price
                                    quantity |
 p_id | p_name
 9001
         Dell Laptop
                            80000
                                           10
 9002
         Apple Mobile
                           150000
                                            5
 9003
         Samsung Mobile
                           100000
                                            3 I
 9004
         Earphone
                             1000
                                            8 |
 rows in set (0.03 sec)
```

```
mysql> select * from purchase;

+-----+

| pur_id | c_no | p_id |

+-----+

| 2001 | 7901 | 9001 |

| 2002 | 7901 | 9002 |

| 2003 | 7902 | 9004 |

| 2004 | 7903 | 9003 |

+-----+

4 rows in set (0.03 sec)
```

Product Table

Purchase Table

```
mysql> select * from customer;
 c_no
        c_name
                 c_address | c_contact
  7901
        Ram
                  Kathmandu |
                              9812345678
  7902
         Shyam
                  Lalitpur
                              9887654321
  7903
        Hari
                  Bhaktapur
                              9878123456
 rows in set (0.03 sec)
```

Costumer Table

a. Find the names of all products having price 1000.

SQL Query:

Select p_name from product where price = 1000;

Table:

Here, the table shows the product's names (p_name) that are priced exactly at 1000.

b. Find the name of those customers who purchased Dell Laptop.

SQL Query:

```
Select distinct c_name

From customer as c

Join purchase as pur on c.c_no = pur.c_no

Join product as p on pur.p_id = p.p_id

Where p_name = "Dell Laptop";
```

Table:

Here, the table shows the customers (c_name) who have purchased a "Dell Laptop", ensuring each customer appears only once.

c. Find the total number of products purchased by customer "Ram".

SQL Query:

```
Select c.c_name, count(*) as Total_Products_Purchased
From customer as c

Join purchase as pur on c.c_no = pur.c_no

Join product as p on pur.p_id = p.p_id

Where c_name = "Ram";
```

Table:

Here, the table shows the number of products "Ram" purchased in total.

Here, count (*) is used to count the number of rows in a table.

d. Increase price of all products by 5%.

SQL Query:

Update product

Set price = price * 1.05;

Table:

Here, the table shows the increased price of all products by 5%.

```
mysql> update product
    → set price = price * 1.05;
Query OK, 4 rows affected (0.03 sec)
Rows matched: 4 Changed: 4 Warnings: 0
mysgl> select *
                 from product;
| p_id | p_name
                        | price
                                 | quantity
        Dell Laptop
                                          10
 9001 l
                           84000
 9002 | Apple Mobile
                                          5
                          157500
  9003 | Samsung Mobile
                                          3
                          105000
  9004 | Earphone
                            1050
 rows in set (0.00 sec)
```

e. Find total price of Apple Mobiles.

SQL Query:

```
Select sum(price * quantity) as Price_of_Apple_Mobiles
From Product
```

Where p name = 'Apple Mobile';

Table:

Here, the table shows the total value of all Apple Mobiles based on their price and quantity.