Name:

Class:B.Sc(IT) Sem-1 Div-A

Sub:DBMS

Date:
Enrollment:
Assignment-9 aim:SQL DDL,DML and aggregate functions
create table Products
(
Prod_Code number(3) primary key,
Prod_Descp varchar2(20),
Prod_Type varchar2(20) check(Prod_Type in('solid','liquid')),
Quantity number(10,2) default(10),
Rate number(10,2) not null
);
insert into Products
values(01,'shampoo','liquid',50,120);
insert into Products
values(02,'Energy Drink','liquid',30,70);
insert into Products
values(03,'Incense sticks','solid',40,20);
insert into Products
values(04,'Soap','solid',35,15);
insert into Products
values(05,'Face Wash','liquid',40,100);
insert into Products
values(06,'Hand Wash','liquid',38,100);
insert into Products
values(07,'Ice Pack','liquid',30,150);
insert into Products
values(08,'NoteBooks','solid',50,30);
insert into Products
values(09,'Iron','solid',30,300);
insert into Products
values(10,'eraser','solid',100,05);

**1. Add a new column total amount with number data type and size 10,2**
alter table Products
add Total_Amt number(10,2);
**1.        Calculate total , use quantity* rate**
update Products
set Total_Amt=Quantity*Rate;
**3. Insert record as prod_type is 'Not known'. [Write the error for same].**
insert into Products
values(11,'Gloves','Not Know',50,20);
ORA-00947: not enough values

**4. Display total summation of quantity of those product whose product type is 'solid'.**
select sum(Quantity)
from Products
where Prod_Type='solid';
  SUM(QUANTITY)
  255

**1.      Display total number of product records whose product type is 'solid'**

select count(*)
from Products
where Prod_Type='solid';

  COUNT(*)
  5


**1.      Display total number of product records whose product name is started with 'E' or 'I' character anywhere in the product name.**

select count(*)
from products
where Prod_Descp
like '%e%' or Prod_Descp like '%i%';

  COUNT(*)
  6

**1.      Display the highest rate of product whose product type is 'liquid**

select max(Rate)
from Products
where Prod_Type='liquid';

  MAX(RATE)
  150

**1.      Display the lowest rate of product whose product name is started with 'E' or 'I' character**
**anywhere in the product name.**

select min(Rate)
from products
where Prod_Descp
like '%e%' or Prod_Descp like '%i%';


  MIN(RATE)
  5

**9. Display all records of product with descending order of product quantity**

select * from Products
order by Quantity desc;

| PROD_CODE | PROD_DESCP | PROD_TYPE | QUANTITY | RATE | TOTAL_AMT |
|---|---|---|---|---|---|
| 10 | eraser | solid | 100 | 5 | 500 |
| 8 | NoteBooks | solid | 50 | 30 | 1500 |
| 1 | shampoo | liquid | 50 | 120 | 6000 |
| 3 | Incense sticks | solid | 40 | 20 | 800 |
| 5 | Face Wash | liquid | 40 | 100 | 4000 |
| 6 | Hand Wash | liquid | 38 | 100 | 3800 |
| 4 | Soap | solid | 35 | 15 | 525 |
| 7 | Ice Pack | liquid | 30 | 150 | 4500 |
| 2 | Energy Drink | liquid | 30 | 70 | 2100 |
| 9 | Iron | solid | 30 | 300 | 9000 |

10 rows returned in 0.00 seconds          Download


**10. Display average of rate whose product quantity is between 30 to 40.**

select avg(Rate)
from Products
where Quantity between 30 and 40;

          AVG(RATE)
  107.85714285714285714285714285714285714143