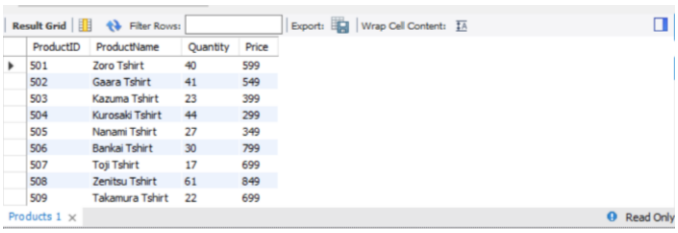
PL-SQL

TASK – 1

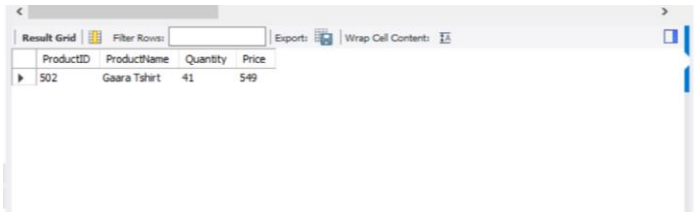
STORED PROCEDURE & FUNCTION

```
/* ------Creating DB------*/

Create database Anime_Store;

use Anime_Store;


 /*------ Creating a Table ------*/

Create table Products (

ProductID numeric(10),

ProductName varchar(20),

Quantity numeric(10),

Price numeric(10)

);


insert into Products values

(502,'Gaara Tshirt', 41, 549), (503,'Kazuma Tshirt', 23, 399),

(504,'Kurosaki Tshirt', 44, 299), (505,'Nanami Tshirt', 27, 349),

(506,'Bankai Tshirt', 30, 799), (507,'Toji Tshirt', 17, 699);


insert into Products values

(508,'Zenitsu Tshirt', 61, 849), (509,'Takamura Tshirt', 22, 699);


Select * from Products;
```



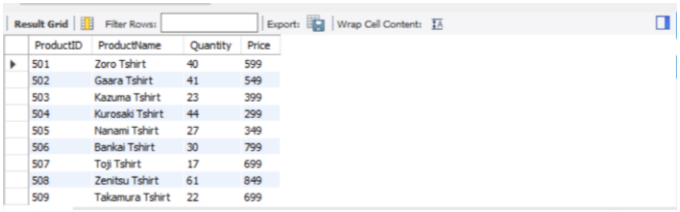
ProductID	ProductName	Quantity	Price
501	Zoro Tshirt	40	599
502	Gaara Tshirt	41	549
503	Kazuma Tshirt	23	399
504	Kurosaki Tshirt	44	299
505	Nanami Tshirt	27	349
506	Bankai Tshirt	30	799
507	Toji Tshirt	17	699
508	Zenitsu Tshirt	61	849
509	Takamura Tshirt	22	699

```
/*-------- Stored procedure to get product based on the product ID -------*/

DELIMITER //

create procedure getProd(IN id int)

begin

select * from Products where ProductID = id;

end //


call getProd(502);
```



ProductID	ProductName	Quantity	Price
502	Gaara Tshirt	41	549

```
/*-------- Stored procedure to get all products --------*/

DELIMITER //

create procedure getAllProducts()

begin

select * from Products;

end //


call getAllProducts;
```



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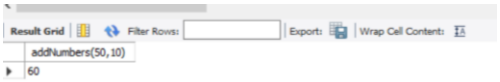
507	Toji Tshirt	17	699
508	Zenitsu Tshirt	61	849
509	Takamura Tshirt	22	699

```
create function getHighPrice(rate int)
returns varchar(30)
deterministic
begin
select * from Products where price>rate;
return
end;
```

```
/*--------- Function Basics---------*/
DELIMITER //
create function addNumbers(num1 numeric, num2 numeric)
returns numeric
deterministic
begin
declare output numeric;
set output = num1 + num2;
return output;
end //
DELIMITER
select addNumbers(50,10);
```



/*--------- Function to get single products that are greater than the given value---------*/

```
delimiter $$
create function getHighPriceProduct(pricerate numeric)
returns varchar(40)
deterministic
begin
declare pname varchar(50);
select ProductName into pname from Products where price>pricerate limit 1;
return pname;
end $$

select getHighPriceProduct(10);
```

/*------------- Function to get mutiple values in a row ----------------------*/

```
delimiter $$
create function emitMutipleValue()
```

returns varchar(100)

deterministic

begin

declare pname varchar(100);

select group_concat(ProductName separator ',') as ProductName into pname

from Products where Price>600;

return pname;

end $$

select emitMutipleValue();