# Principle of Data Base Management Systems

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CUSTOMER_ID CUSTOMER_NAME	QUANTITY				
2007 Messi		0			
SQL> desc amazon; Name	Null?	Туре			
PRODUCT_ID PRODUCT_NAME PRODUCT_PRICE CUSTOMER_ID TIME_OF_ORDER DATE_OF_PURCHASE QUANTITY	NOT NULL	NUMBER(10) VARCHAR2(30) NUMBER(10) NUMBER(10) VARCHAR2(30) VARCHAR2(30) NUMBER(10)			
SQL> desc customer; Name	Null?	Туре			
CUSTOMER_ID CUSTOMER_NAME CUSTOMER_PHONENUMBER CUSTOMER_ADDRESS	NOT NULL	NUMBER(10) VARCHAR2(30) NUMBER(10) VARCHAR2(30)			

### **Amazon table**

PRODUCT_ID	PRODUCT_NAME	PRODUCT_PRICE	CUSTOMER_ID	TIME_OF_ORDER	DATE_OF_PURCHASE	QUANTITY
1001	SmartTV	500000	2001	9-AM	01-JUL-2019	2
1002	Dish wash	25000	2002	10-PM	25-AUGUST-2019	3
1003	Home Theatre	35000	2003	1-AM	18-SEPTEMBER-2019	4
1004	Alexa	8000	2004	11-AM	16-OCTOBER-2019	6
1005	Mac book pro	1000000	2005	5-PM	10-NOVERMBER-2019	8
1006	One plus 8pro	45000	2006	8-AM	24-APRIL-2019	1
1007	Sony Bravia	85000	2007	11-AM	22-APRIL-2020	5
1008	Iphone 11 pro max	65000	2007	12-AM	20-APRIL-2020	0

### **Customer table**

CUSTOMER_ID	CUSTOMER_NAME	CUSTOMER_PHONENUMBER	CUSTOMER_ADDRESS
2001	Chandler	902145	Washington
2002	Ross	45123	London
2003	Prashanth	98032	Sydney
2004	Monica	73821	Austria
2005	Phoeba	32456	Ireland
2006	Rajesh	29031	California
2007	Messi	19041	Barcelona

#### **Group Functions**

## 1)How many customers purchased more than 50000

# 2) Print the maximum, minimum and the average amount of purchase.

### 3) Find out the products pricing > 40000

```
SQL> select product_id,product_name,product_price
2 from amazon
3 where product_price>40000;

PRODUCT_ID PRODUCT_NAME PRODUCT_PRICE

1001 SmartTV 500000
1005 Mac book pro 100000
1006 One plus 8pro 45000
1007 Sony Bravia 85000
```

4) Display the number of customers along with the product in which the customer brought 'pro' products.

```
1 select c.customer_id,a.product_name from customer c
2 join amazon a on a.customer_id=c.customer_id
3* where a.product_name like '%pro'
SQL> /

CUSTOMER_ID PRODUCT_NAME

2005 Mac book pro
2006 One plus 8pro
```

5) Determine the minimum amount spent by the customer on the purchase

```
SQL> select c.customer_id,c.customer_name,a.product_price from customer c
2 join amazon a on a.customer_id=c.customer_id
3 where a.product_price=(select min(a.product_price) from amazon a);

CUSTOMER_ID CUSTOMER_NAME PRODUCT_PRICE

2004 Monica 8000
```

6) Calculate the average amount of purchase who purchases >50000

# 7) Display the total number of customers and total amount purchased.

```
SQL> select count(c.customer_id),sum(a.product_price) from customer c
2 join amazon a on a.customer_id=c.customer_id;

COUNT(C.CUSTOMER_ID) SUM(A.PRODUCT_PRICE)

7 798000
```

### 8) List the customers who bought minimum quantity of products

```
SQL> select c.customer_id,c.customer_name,a.product_price from customer c
2 join amazon a on a.customer_id=c.customer_id
3 where a.quantity=(select min(a.quantity) from amazon a);

CUSTOMER_ID CUSTOMER_NAME PRODUCT_PRICE

2007 Messi 65000
```

## 9) How many customers bought exactly 0 quantity of product???

```
SQL> select customer_id,product_price,quantity
2 from amazon
3 where quantity = (select min(quantity) from amazon);

CUSTOMER_ID PRODUCT_PRICE QUANTITY

2007 65000 0
```

# 10) Get the customer and their respective purchase from 'Austria'.

```
SQL> select c.customer_id,c.customer_name,a.product_name from customer c
2 join amazon a on a.customer_id=c.customer_id
3 where c.customer_address='Austria';

CUSTOMER_ID CUSTOMER_NAME PRODUCT_NAME

2004 Monica Alexa
```