

L24 : SQL Queries and Assessment

1-Tut : Query 1

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Problem Statement

Write an SQL query to add a new column "*transaction_type*", for the **transactions** table.

Note: Datatype for transaction_type is VARCHAR(225).

Information about the tables:

Given below is a database of a newly established e-commerce website. The database contains multiple tables i.e. products, orders, and transactions. The information about required tables is given below

Table **transactions**

Attributes list

Attributes	Data Type
transaction_id	VARCHAR (20) (Primary Key)
transaction_status	VARCHAR (25)

Data list:

transaction_id	transaction_status
tid1	completed
tid2	not completed
tid3	not completed
tid4	completed
tid5	completed
tid6	not completed

Note: Describe the complete table afterwards.

```
DESC table_name;
```

```
ALTER TABLE transactions ADD transaction_type VARCHAR(225);  
DESC transactions;
```

2-Tut : Query 2

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Problem Statement

Create the customers table for this database.

The attributes and their respective datatypes are as follows:

Attributes	Data Type
customer_id	VARCHAR (20) (Primary Key)
customer_name	VARCHAR (225)
phone_no	INT
city	VARCHAR (200)
pin_code	INT

Information about the tables:

Given below is a database of a newly established e-commerce website. The database contains multiple tables i.e. products, orders, and transactions. The information about required tables is given below

Information about the table **transactions**

Attributes list

Attributes	Data Type
transaction_id	VARCHAR (20) (Primary Key)
transaction_status	VARCHAR (25)

```
CREATE TABLE customers(  
  customer_id VARCHAR(20) NOT NULL,  
  customer_name VARCHAR(225),  
  phone_no INT,  
  city VARCHAR(200),  
  pin_code INT,  
  PRIMARY KEY (customer_id)  
);  
DESC customers;  
-- didn't asked in question but have to do it DESC
```

3-Tut : Query 3

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Problem Statement

Write an SQL query to print all the details of the products whose seller's name ends with 'n' and contains only seven alphabets.

Information about the tables:

Given below is a database of a newly established e-commerce website. The database contains multiple tables i.e. products, orders, and transactions. The information about required tables is given below.

Table product

Attributes list

Attributes	Data Type
item_id	INT (Primary Key)
product_id	INT
pname	VARCHAR (225)
inStock	CHAR
price	DOUBLE
arrival_days	INT
seller	VARCHAR (225)
youSave	DOUBLE

Data list

item_id	product_id	p_name	inStock	price	arrival_days	seller	youSave
1	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
2	2223	optimum whey protien	Y	1614	7	Cloutail India	245
3	7556	Iphone 11 (128GB)	Y	53500	4	Kukreja Telecom Store	1400
4	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
5	99	Mini organising tech kit	Y	1400	2	dailyen	200
6	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
7	5454	Iphone 11 (64GB)	Y	46999	3	Maple Store	3000
8	4324	Women's Cotton Blend Straight Kurti with Palazzos	Y	549	10	Maxx Store	1000
9	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
10	9753	OnePlus Buds Z	N	2999	3	Appario Retail Private Ltd	191
11	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
12	6477	Ikigai: The Japanese secret to a long and happy life	Y	427	3	Cloutail India	123
13	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
14	1111	Solimo Trance High Back Mesh Contemporary Office Chair (Black)	Y	7599	4	Cloutail India	5901
15	2222	Nayasa 2 in 1 Dustbin - Dry Waste and Wet Waste Dustbin (33 Ltrs) - Big	Y	1339	7	Cloutail India	189
16	5555	Ben Martin Men's Relaxed Jeans	N	698	12	Maxx Store	100
17	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
18	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
19	2223	optimum whey protien	Y	1614	7	Cloutail India	245
20	529	MI Mobile cover	Y	999	5	dailyen	500
21	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
22	7556	Iphone 11 (128GB)	Y	54900	7	Sunil mobile Store	0
23	9753	OnePlus Buds Z	N	4000	5	sekhri telecoms	200
24	5454	Iphone 11 (64GB)	Y	43999	7	imagine store	6000

select * from product where seller like '_____n';

4-Tut : Query 4

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Problem Statement

How many orders are currently being delivered in December 2021?

Information about the tables:

Given below is a database of a newly established e-commerce website. The database contains multiple tables i.e. products, orders, transactions, and customer. The information about required tables is given below

Table orders

Attributes list:

Attributes	Data Type
order_id	INT (Primary Key)
product_id	INT
customer_id	INT
payment_date	DATE
est_delivery_date	DATE
transaction_days	INT

Data list:

order_id	product_id	customer_id	checkout_price	payment_date	est_delivery_date	transaction_id
oid1	7777	cid3	63999	2021-11-12	2021-11-14	tid1
oid2	7556	cid1	51300	2021-11-09	2021-11-13	tid2
oid3	6754	cid5	591	2021-11-24	2021-12-03	tid3
oid4	7556	cid3	51300	2021-11-10	2021-11-14	tid4
oid5	6477	cid2	500	2021-11-06	2021-11-09	tid5
oid6	2223	cid7	1514	2021-11-27	2021-12-04	tid6

```
SELECT COUNT(*) FROM orders
```

```
WHERE
```

```
MONTH(est_delivery_date)= 12 AND YEAR(est_delivery_date) = 2021;
```

5-Tut : Query 5

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Problem Statement

Write an SQL query to show only odd rows from the product table.

Information about the tables:

Given below is a database of a newly established e-commerce website. The database contains multiple tables i.e. products, orders, and transactions. The information about required tables is given below

Table product

Attributes list

Attributes	Data Type
item_id	INT (Primary Key)
product_id	INT
pname	VARCHAR (225)
inStock	CHAR
price	DOUBLE
arrival_days	INT
seller	VARCHAR (225)
youSave	DOUBLE

Data list

item_id	product_id	p_name	inStock	price	arrival_days	seller	youSave
1	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
2	2223	optimum whey protien	Y	1614	7	Cloudtail India	245
3	7556	Iphone 11 (128GB)	Y	53500	4	Kukreja Telecom Store	1400
4	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
5	99	Mini organising tech kit	Y	1400	2	dailyen	200
6	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
7	5454	Iphone 11 (64GB)	Y	46999	3	Maple Store	3000
8	4324	Women's Cotton Blend Straight Kurti with Palazzos	Y	549	10	Maxx Store	1000
9	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
10	9753	OnePlus Buds Z	N	2999	3	Appario Retail Private Ltd	191
11	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
12	6477	Ikigai: The Japanese secret to a long and happy life	Y	427	3	Cloudtail India	123
13	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
14	1111	Solimo Trance High Back Mesh Contemporary Office Chair (Black)	Y	7599	4	Cloudtail India	5901
15	2222	Nayasa 2 in 1 Dustbin - Dry Waste and Wet Waste Dustbin (33 Ltrs) - Big	Y	1339	7	Cloudtail India	189
16	5555	Ben Martin Men's Relaxed Jeans	N	698	12	Maxx Store	100
17	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
18	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
19	2223	optimum whey protien	Y	1614	7	Cloudtail India	245
20	529	Mi Mobile cover	Y	999	5	dailyen	500
21	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
22	7556	Iphone 11 (128GB)	Y	54900	7	Sunil mobile Store	0
23	9753	OnePlus Buds Z	N	4000	5	sekhri telecoms	200
24	5454	Iphone 11 (64GB)	Y	43999	7	imagine store	6000

SELECT * FROM product where MOD(item_id,2) <> 0;

6-Tut : Query 6

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Problem Statement

Make a Clone of the product table(with complete data) and name it to be giftList and print the table schema in ascending order of column name as well.

Information about the tables:

Given below is a database of a newly established e-commerce website. The database contains multiple tables i.e. products, orders, transactions, and customers. The information about required tables is given below

Table **product**

Attributes list

Attributes	Data Type
item_id	INT (Primary Key)
product_id	INT
pname	VARCHAR (225)
inStock	CHAR
price	DOUBLE
arrival_days	INT
seller	VARCHAR (225)
youSave	DOUBLE

Data list

item_id	product_id	p_name	inStock	price	arrival_days	seller	youSave
1	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
2	2223	optimum whey protien	Y	1614	7	Cloutail India	245
3	7556	Iphone 11 (128GB)	Y	53500	4	Kukreja Telecom Store	1400
4	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
5	99	Mini organising tech kit	Y	1400	2	dailyen	200
6	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
7	5454	Iphone 11 (64GB)	Y	46999	3	Maple Store	3000
8	4324	Women's Cotton Blend Straight Kurti with Palazzos	Y	549	10	Maxx Store	1000
9	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
10	9753	OnePlus Buds Z	N	2999	3	Appario Retail Private Ltd	191
11	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
12	6477	Ikigai: The Japanese secret to a long and happy life	Y	427	3	Cloutail India	123
13	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
14	1111	Solimo Trance High Back Mesh Contemporary Office Chair (Black)	Y	7599	4	Cloutail India	5901
15	2222	Nayasa 2 in 1 Dustbin - Dry Waste and Wet Waste Dustbin (33 Ltrs) - Big	Y	1339	7	Cloutail India	189
16	5555	Ben Martin Men's Relaxed Jeans	N	698	12	Maxx Store	100
17	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
18	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
19	2223	optimum whey protien	Y	1614	7	Cloutail India	245
20	529	Mi Mobile cover	Y	999	5	dailyen	500
21	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
22	7556	Iphone 11 (128GB)	Y	54900	7	Sunil mobile Store	0
23	9753	OnePlus Buds Z	N	4000	5	sekhri telecoms	200
24	5454	Iphone 11 (64GB)	Y	43999	7	imagine store	6000

Note : Command to print table schema:-

```
SELECT table_name, column_name, data_type
FROM information_schema.columns
WHERE table_name = 'table_name';
```

```

CREATE TABLE giftList AS SELECT * FROM product;
SELECT
    table_name,
    column_name,
    data_type
FROM
    information_schema.columns
WHERE
    table_name = 'giftList'
ORDER BY column_name;

```

7-Tut : **Query 7**

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Problem Statement

Make a Clone of the **product** table(without data) and name it to be cloneListPro and print the table schema of the table cloneListPro.

Information about the tables:

Given below is a database of a newly established e-commerce website. The database contains multiple tables i.e. products, orders, transactions, and customers. The information about required tables is given below

Table **product**

Attributes list

Attributes	Data Type
item_id	INT (Primary Key)
product_id	INT
pname	VARCHAR (225)
inStock	CHAR
price	DOUBLE
arrival_days	INT
seller	VARCHAR (225)
youSave	DOUBLE

Table **order**

Attributes list:

Attributes	Data Type
order_id	INT (Primary Key)
product_id	INT
customer_id	INT
payment_date	DATE
est_delivery_date	DATE
transaction_days	INT

Table **transactions**

Attributes list

Attributes	Data Type
transaction_id	VARCHAR (20) (Primary Key)
transaction_status	VARCHAR (25)

Table **customers**

Attributes list

Attributes	Data Type
customer_id	VARCHAR (20) (Primary Key)
customer_name	VARCHAR (225)
phone_no	INT
city	VARCHAR (200)
pin_code	INT

Note : Command to print table schema:-

```
SELECT table_name, column_name, data_type
FROM information_schema.columns
WHERE table_name = 'table_name';
```



```
CREATE TABLE cloneListPro LIKE product;
```

```
SELECT table_name, column_name, data_type
```

```
FROM information_schema.columns
```

```
WHERE table_name = 'cloneListPro';
```

7-a-Tut : Query-7

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Problem Statement

Print out the 6 records from the product table after the 3rd row.

Information about the tables:

Given below is a database of a newly established e-commerce website. The database contains multiple tables i.e. products, orders, transactions, and customers. The information about required tables is given below

Table product

Attributes	Data Type
item_id	INT (Primary Key)
product_id	INT
pname	VARCHAR (225)
inStock	CHAR
price	DOUBLE
arrival_days	INT
seller	VARCHAR (225)
youSave	DOUBLE

Attributes list

Data list

item_id	product_id	p_name	inStock	price	arrival_days	seller	youSave
1	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
2	2223	optimum whey protien	Y	1614	7	Clouttail India	245
3	7556	Iphone 11 (128GB)	Y	53500	4	Kukreja Telecom Store	1400
4	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
5	99	Mini organising tech kit	Y	1400	2	dailyen	200
6	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
7	5454	Iphone 11 (64GB)	Y	46999	3	Maple Store	3000
8	4324	Women's Cotton Blend Straight Kurti with Palazzos	Y	549	10	Maxx Store	1000
9	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
10	9753	OnePlus Buds Z	N	2999	3	Appario Retail Private Ltd	191
11	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
12	6477	Ikigai: The Japanese secret to a long and happy life	Y	427	3	Clouttail India	123
13	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
14	1111	Solimo Trance High Back Mesh Contemporary Office Chair (Black)	Y	7599	4	Clouttail India	5901
15	2222	Nayasa 2 in 1 Dustbin - Dry Waste and Wet Waste Dustbin (33 Ltrs) - Big	Y	1339	7	Clouttail India	189
16	5555	Ben Martin Men's Relaxed Jeans	N	698	12	Maxx Store	100
17	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
18	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
19	2223	optimum whey protien	Y	1614	7	Clouttail India	245
20	529	MI Mobile cover	Y	999	5	dailyen	500
21	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
22	7556	Iphone 11 (128GB)	Y	54900	7	Sunil mobile Store	0
23	9753	OnePlus Buds Z	N	4000	5	sekhri telecoms	200
24	5454	Iphone 11 (64GB)	Y	43999	7	imagine store	6000

SELECT * FROM product LIMIT 3,6;

8-Tut : Query - 8

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Problem Statement

Write a Mysql query to fetch the second most expensive item cost/price.

Information about the tables:

Given below is a database of a newly established e-commerce website. The database contains multiple tables i.e. products, orders, transactions, and customers. The information about different tables is given below

Table product

Attributes list

Attributes	Data Type
item_id	INT (Primary Key)
product_id	INT
pname	VARCHAR (225)
inStock	CHAR
price	DOUBLE
arrival_days	INT
seller	VARCHAR (225)
youSave	DOUBLE

Data list

item_id	product_id	p_name	inStock	price	arrival_days	seller	youSave
1	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
2	2223	optimum whey protien	Y	1614	7	Cloutail India	245
3	7556	Iphone 11 (128GB)	Y	53500	4	Kukreja Telecom Store	1400
4	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
5	99	Mini organising tech kit	Y	1400	2	dailyen	200
6	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
7	5454	Iphone 11 (64GB)	Y	46999	3	Maple Store	3000
8	4324	Women's Cotton Blend Straight Kurti with Palazzos	Y	549	10	Maxx Store	1000
9	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
10	9753	OnePlus Buds Z	N	2999	3	Appario Retail Private Ltd	191
11	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
12	6477	Ikigai: The Japanese secret to a long and happy life	Y	427	3	Cloutail India	123
13	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
14	1111	Solimo Trance High Back Mesh Contemporary Office Chair (Black)	Y	7599	4	Cloutail India	5901
15	2222	Nayasa 2 in 1 Dustbin - Dry Waste and Wet Waste Dustbin (33 Ltrs) - Big	Y	1339	7	Cloutail India	189
16	5555	Ben Martin Men's Relaxed Jeans	N	698	12	Maxx Store	100
17	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
18	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
19	2223	optimum whey protien	Y	1614	7	Cloutail India	245
20	529	MI Mobile cover	Y	999	5	dailyen	500
21	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
22	7556	Iphone 11 (128GB)	Y	54900	7	Sunil mobile Store	0
23	9753	OnePlus Buds Z	N	4000	5	sekhri telecoms	200
24	5454	Iphone 11 (64GB)	Y	43999	7	imagine store	6000

SELECT MAX(price) from product where price not in(SELECT MAX(price) from product);

9-Tut : Query - 9

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Problem Statement

Fetch out all the product details of the 7th most expensive product.

Information about the tables:

Given below is a database of a newly established e-commerce website. The database contains multiple tables i.e. products, orders, transactions, and customers. The information about required tables is given below

Table product

Attributes list

Attributes	Data Type
item_id	INT (Primary Key)
product_id	INT
pname	VARCHAR (225)
inStock	CHAR
price	DOUBLE
arrival_days	INT
seller	VARCHAR (225)
youSave	DOUBLE

Data list

item_id	product_id	p_name	inStock	price	arrival_days	seller	youSave
1	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
2	2223	optimum whey protien	Y	1614	7	Cloutail India	245
3	7556	Iphone 11 (128GB)	Y	53500	4	Kukreja Telecom Store	1400
4	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
5	99	Mini organising tech kit	Y	1400	2	dailyen	200
6	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
7	5454	Iphone 11 (64GB)	Y	46999	3	Maple Store	3000
8	4324	Women's Cotton Blend Straight Kurti with Palazzos	Y	549	10	Maxx Store	1000
9	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
10	9753	OnePlus Buds Z	N	2999	3	Appario Retail Private Ltd	191
11	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
12	6477	Ikigai: The Japanese secret to a long and happy life	Y	427	3	Cloutail India	123
13	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
14	1111	Solimo Trance High Back Mesh Contemporary Office Chair (Black)	Y	7599	4	Cloutail India	5901
15	2222	Nayasa 2 in 1 Dustbin - Dry Waste and Wet Waste Dustbin (33 Ltrs) - Big	Y	1339	7	Cloutail India	189
16	5555	Ben Martin Men's Relaxed Jeans	N	698	12	Maxx Store	100
17	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
18	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
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20	529	MI Mobile cover	Y	999	5	dailyen	500
21	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
22	7556	Iphone 11 (128GB)	Y	54900	7	Sunil mobile Store	0
23	9753	OnePlus Buds Z	N	4000	5	sekhri telecoms	200
24	5454	Iphone 11 (64GB)	Y	43999	7	imagine store	6000

--SELECT * FROM product p1 WHERE 7-1 = (SELECT COUNT(price) FROM product p2 WHERE p2.price > p1.price);

SELECT * FROM product ORDER BY price DESC LIMIT 6,1;

-- offset is same thing

10-Tut : Query - 10

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Problem Statement

Fetch the first 33% records from a product table.

Information about the tables:

Given below is a database of a newly established e-commerce website. The database contains multiple tables i.e. products, orders, transactions, and customers. The information about required tables is given below

Table product

Attributes list

Attributes	Data Type
item_id	INT (Primary Key)
product_id	INT
pname	VARCHAR (225)
inStock	CHAR
price	DOUBLE
arrival_days	INT
seller	VARCHAR (225)
youSave	DOUBLE

Data list

item_id	product_id	p_name	inStock	price	arrival_days	seller	youSave
1	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
2	2223	optimum whey protien	Y	1614	7	Cloutail India	245
3	7556	Iphone 11 (128GB)	Y	53500	4	Kukreja Telecom Store	1400
4	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
5	99	Mini organising tech kit	Y	1400	2	dailyen	200
6	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
7	5454	Iphone 11 (64GB)	Y	46999	3	Maple Store	3000
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9	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
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16	5555	Ben Martin Men's Relaxed Jeans	N	698	12	Maxx Store	100
17	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
18	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
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20	529	MI Mobile cover	Y	999	5	dailyen	500
21	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
22	7556	Iphone 11 (128GB)	Y	54900	7	Sunil mobile Store	0
23	9753	OnePlus Buds Z	N	4000	5	sekhri telecoms	200
24	5454	Iphone 11 (64GB)	Y	43999	7	imagine store	6000

```
SELECT * FROM product WHERE item_id <= (SELECT COUNT(item_id)/3 FROM product);
```

11-Tut : Query - 11

[Send Feedback](#)

Given below is a database of a newly established ecommerce website. The database contains multiple tables, below is the table product that contains attributes like:

Attributes	Data Types
item_id (PRIMARY KEY)	INT
product_id	INT
p_name	VARCHAR(225)
inStock	CHAR
price	DOUBLE
arrival_days	INT
seller	VARCHAR(225)
youSave	DOUBLE

Table product:

item_id	product_id	p_name	inStock	price	arrival_days	seller	youSave
1	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
2	2223	optimum whey protien	Y	1614	7	Cloutail India	245
3	7556	Iphone 11 (128GB)	Y	53500	4	Kukreja Telecom Store	1400
4	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
5	99	Mini organising tech kit	Y	1400	2	dailyen	200
6	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
7	5454	Iphone 11 (64GB)	Y	46999	3	Maple Store	3000
8	4324	Women's Cotton Blend Straight Kurti with Palazzos	Y	549	10	Maxx Store	1000
9	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
10	9753	OnePlus Buds Z	N	2999	3	Appario Retail Private Ltd	191
11	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
12	6477	Ikigai: The Japanese secret to a long and happy life	Y	427	3	Cloutail India	123
13	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
14	1111	Solimo Trance High Back Mesh Contemporary Office Chair (Black)	Y	7599	4	Cloutail India	5901
15	2222	Nayasa 2 in 1 Dustbin - Dry Waste and Wet Waste Dustbin (33 Ltrs) - Big	Y	1339	7	Cloutail India	189
16	5555	Ben Martin Men's Relaxed Jeans	N	698	12	Maxx Store	100
17	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
18	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
19	2223	optimum whey protien	Y	1614	7	Cloutail India	245
20	529	MI Mobile cover	Y	999	5	dailyen	500
21	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
22	7556	Iphone 11 (128GB)	Y	54900	7	Sunil mobile Store	0
23	9753	OnePlus Buds Z	N	4000	5	sekhri telecoms	200
24	5454	Iphone 11 (64GB)	Y	43999	7	imagine store	6000

Along with data of products available on the website we are also provided with the database of the orders made by the customers, along with transactional data based on the order they have made.

The attributes for the orders table is as follows:

Attributes	Data Types
order_id (PRIMARY KEY)	INT
product_id	INT
customer_id	INT
payment_date	DATE
est_delivery_date	DATE
transaction_id	INT

Table orders:

order_id	product_id	customer_id	checkout_price	payment_date	est_delivery_date	transaction_id
oid1	7777	cid3	63999	2021-11-12	2021-11-14	tid1
oid2	7556	cid1	51300	2021-11-09	2021-11-13	tid2
oid3	6754	cid5	591	2021-11-24	2021-12-03	tid3
oid4	7556	cid3	51300	2021-11-10	2021-11-14	tid4
oid5	6477	cid2	500	2021-11-06	2021-11-09	tid5
oid6	2223	cid7	1514	2021-11-27	2021-12-04	tid6

The attributes for the transaction table is as follows:

Attributes	Data Types
transaction_id (PRIMARY KEY)	VARCHAR(20)
transaction_status	VARCHAR(225)

Table transactions:

transaction_id	transaction_status
tid1	completed
tid2	not completed
tid3	not completed
tid4	completed
tid5	completed
tid6	not completed

The attributes for the customer table are :

Attribute	Data Type
customer_id(Primary Key)	VARCHAR(20)
customer_name	VARCHAR(225)
phone_no	INT
city	VARCHAR(200)
pin_code	INT

Table customer:

customer_id	customer_name	phone_no	city	pin_code
cid1	Riya Khanna	987655443	Delhi	110005
cid2	Sahil Kumar	987657643	Mumbai	230532
cid3	Vishwas Aanand	987658871	Kolkata	700007
cid4	Harleen Kaur	987677585	Bengaluru	560006
cid5	Priyanshu Gupta	956758556	Hyderabad	500012
cid6	Lokesh Ravaliya	998295561	Bikaner	334003
cid7	Kuldeep Daga	997757204	Mandsaur	458001
cid8	Vaibhav Jain	987677757	Jalandhar	144002
cid9	Lokesh Gupta	956758500	Hyderabad	500013

Using the information provided for the eCommerce database answer the following query:

For each seller, find the number of products he/she is selling.

```
SELECT seller,COUNT(*) FROM product GROUP BY seller;
```

12-Tut : Query - 12

[Send Feedback](#)

Problem Statement

List out the five cheapest prices from the product table. (only need to list the prices)

Information about the tables:

Given below is a database of a newly established e-commerce website. The database contains multiple tables i.e. products, orders, transactions, and customers. The information about required tables is given below

Table product

Attributes list

Attributes	Data Type
item_id	INT (Primary Key)
product_id	INT
pname	VARCHAR (225)
inStock	CHAR
price	DOUBLE
arrival_days	INT
seller	VARCHAR (225)
youSave	DOUBLE

Data list

item_id	product_id	p_name	inStock	price	arrival_days	seller	youSave
1	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
2	2223	optimum whey protien	Y	1614	7	Cloutail India	245
3	7556	Iphone 11 (128GB)	Y	53500	4	Kukreja Telecom Store	1400
4	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
5	99	Mini organising tech kit	Y	1400	2	dailyen	200
6	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
7	5454	Iphone 11 (64GB)	Y	46999	3	Maple Store	3000
8	4324	Women's Cotton Blend Straight Kurti with Palazzos	Y	549	10	Maxx Store	1000
9	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
10	9753	OnePlus Buds Z	N	2999	3	Appario Retail Private Ltd	191
11	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
12	6477	Ikigai: The Japanese secret to a long and happy life	Y	427	3	Cloutail India	123
13	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
14	1111	Solimo Trance High Back Mesh Contemporary Office Chair (Black)	Y	7599	4	Cloutail India	5901
15	2222	Nayasa 2 in 1 Dustbin - Dry Waste and Wet Waste Dustbin (33 Ltrs) - Big	Y	1339	7	Cloutail India	189
16	5555	Ben Martin Men's Relaxed Jeans	N	698	12	Maxx Store	100
17	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
18	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
19	2223	optimum whey protien	Y	1614	7	Cloutail India	245
20	529	MI Mobile cover	Y	999	5	dailyen	500
21	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
22	7556	Iphone 11 (128GB)	Y	54900	7	Sunil mobile Store	0
23	9753	OnePlus Buds Z	N	4000	5	sekhri telecoms	200
24	5454	Iphone 11 (64GB)	Y	43999	7	imagine store	6000


```
--1. SELECT distinct (price) from product order by price ASC LIMIT 0,5;
SELECT distinct price from product a
WHERE 5 >= (SELECT count(distinct price) from product b
WHERE a.price >= b.price)
ORDER BY a.price;
```

13-Tut : Query - 13

[Send Feedback](#)

Problem Statement

List out the five most expensive prices from the product table. (only need to list the prices)

Information about the tables:

Given below is a database of a newly established e-commerce website. The database contains multiple tables i.e. products, orders, transactions, and customers. The information about required tables is given below

Table **product**

Attributes list

Attributes	Data Type
item_id	INT (Primary Key)
product_id	INT
pname	VARCHAR (225)
inStock	CHAR
price	DOUBLE
arrival_days	INT
seller	VARCHAR (225)
youSave	DOUBLE

Data list

item_id	product_id	p_name	inStock	price	arrival_days	seller	youSave
1	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
2	2223	optimum whey protien	Y	1614	7	Cloutail India	245
3	7556	Iphone 11 (128GB)	Y	53500	4	Kukreja Telecom Store	1400
4	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
5	99	Mini organising tech kit	Y	1400	2	dailyen	200
6	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
7	5454	Iphone 11 (64GB)	Y	46999	3	Maple Store	3000
8	4324	Women's Cotton Blend Straight Kurti with Palazzos	Y	549	10	Maxx Store	1000
9	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
10	9753	OnePlus Buds Z	N	2999	3	Appario Retail Private Ltd	191
11	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
12	6477	Ikigai: The Japanese secret to a long and happy life	Y	427	3	Cloutail India	123
13	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
14	1111	Solimo Trance High Back Mesh Contemporary Office Chair (Black)	Y	7599	4	Cloutail India	5901
15	2222	Nayasa 2 in 1 Dustbin - Dry Waste and Wet Waste Dustbin (33 Ltrs) - Big	Y	1339	7	Cloutail India	189
16	5555	Ben Martin Men's Relaxed Jeans	N	698	12	Maxx Store	100
17	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
18	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
19	2223	optimum whey protien	Y	1614	7	Cloutail India	245
20	529	MI Mobile cover	Y	999	5	dailyen	500
21	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
22	7556	Iphone 11 (128GB)	Y	54900	7	Sunil mobile Store	0
23	9753	OnePlus Buds Z	N	4000	5	sekhri telecoms	200
24	5454	Iphone 11 (64GB)	Y	43999	7	imagine store	6000

--1. SELECT distinct(price) from product order by price DESC LIMIT 0,5;

--2. SELECT distinct price from product a

WHERE 5 >= (SELECT count(distinct price) from product b

WHERE a.price <= b.price)

ORDER BY a.price DESC;

14-Tut : Query - 14

[Send Feedback](#)

Problem Statement

What's the percentage of the products in stock with savings greater than 4000.

Information about the tables:

Given below is a database of a newly established e-commerce website. The database contains multiple tables i.e. products, orders, transactions, and customers. The information about required tables is given below

Table product

Attributes list

Attributes	Data Type
item_id	INT (Primary Key)
product_id	INT
pname	VARCHAR (225)
inStock	CHAR
price	DOUBLE
arrival_days	INT
seller	VARCHAR (225)
youSave	DOUBLE

Data list

item_id	product_id	p_name	inStock	price	arrival_days	seller	youSave
1	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
2	2223	optimum whey protien	Y	1614	7	Cloutail India	245
3	7556	Iphone 11 (128GB)	Y	53500	4	Kukreja Telecom Store	1400
4	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
5	99	Mini organising tech kit	Y	1400	2	dailyen	200
6	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
7	5454	Iphone 11 (64GB)	Y	46999	3	Maple Store	3000
8	4324	Women's Cotton Blend Straight Kurti with Palazzos	Y	549	10	Maxx Store	1000
9	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
10	9753	OnePlus Buds Z	N	2999	3	Appario Retail Private Ltd	191
11	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
12	6477	Ikigai: The Japanese secret to a long and happy life	Y	427	3	Cloutail India	123
13	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
14	1111	Solimo Trance High Back Mesh Contemporary Office Chair (Black)	Y	7599	4	Cloutail India	5901
15	2222	Nayasa 2 in 1 Dustbin - Dry Waste and Wet Waste Dustbin (33 Ltrs) - Big	Y	1339	7	Cloutail India	189
16	5555	Ben Martin Men's Relaxed Jeans	N	698	12	Maxx Store	100
17	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
18	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
19	2223	optimum whey protien	Y	1614	7	Cloutail India	245
20	529	MI Mobile cover	Y	999	5	dailyen	500
21	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
22	7556	Iphone 11 (128GB)	Y	54900	7	Sunil mobile Store	0
23	9753	OnePlus Buds Z	N	4000	5	sekhri telecoms	200
24	5454	Iphone 11 (64GB)	Y	43999	7	imagine store	6000

```
SELECT (SELECT COUNT(*) FROM product
WHERE inStock = 'Y' and
youSave > 4000) * 100 / (SELECT COUNT(*) FROM product WHERE inStock = 'Y')
AS percentage;
```

o/p :

```
+-----+
| percentage |
+-----+
| 23.5294 |
+-----+
```

15-Tut : Query - 15

[Send Feedback](#)

Problem Statement

Write a MySQL query to display the last 4 records from the product table.

Information about the tables:

Given below is a database of a newly established e-commerce website. The database contains multiple tables i.e. products, orders, transactions, and customers. The information about required tables is given below

Table **product**

Attributes list

Attributes	Data Type
item_id	INT (Primary Key)
product_id	INT
pname	VARCHAR (225)
inStock	CHAR
price	DOUBLE
arrival_days	INT
seller	VARCHAR (225)
youSave	DOUBLE

Data list

item_id	product_id	p_name	inStock	price	arrival_days	seller	youSave
1	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
2	2223	optimum whey protien	Y	1614	7	Cloudtail India	245
3	7556	Iphone 11 (128GB)	Y	53500	4	Kukreja Telecom Store	1400
4	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
5	99	Mini organising tech kit	Y	1400	2	dailyen	200
6	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
7	5454	Iphone 11 (64GB)	Y	46999	3	Maple Store	3000
8	4324	Women's Cotton Blend Straight Kurti with Palazzos	Y	549	10	Maxx Store	1000
9	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
10	9753	OnePlus Buds Z	N	2999	3	Appario Retail Private Ltd	191
11	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
12	6477	Ikigai: The Japanese secret to a long and happy life	Y	427	3	Cloudtail India	123
13	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
14	1111	Solimo Trance High Back Mesh Contemporary Office Chair (Black)	Y	7599	4	Cloudtail India	5901
15	2222	Nayasa 2 in 1 Dustbin - Dry Waste and Wet Waste Dustbin (33 Ltrs) - Big	Y	1339	7	Cloudtail India	189
16	5555	Ben Martin Men's Relaxed Jeans	N	698	12	Maxx Store	100
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18	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
19	2223	optimum whey protien	Y	1614	7	Cloudtail India	245
20	529	MI Mobile cover	Y	999	5	dailyen	500
21	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
22	7556	Iphone 11 (128GB)	Y	54900	7	Sunil mobile Store	0
23	9753	OnePlus Buds Z	N	4000	5	sekhri telecoms	200
24	5454	Iphone 11 (64GB)	Y	43999	7	imagine store	6000

SELECT * FROM (SELECT * from product order by item_id DESC LIMIT 4)gone order by item_id ASC;

16-Tut : **Query - 16**

[Send Feedback](#)

Problem Statement

Find the count of duplicate entries in the product table considering there is no primary key (item_id).

Information about the tables:

Given below is a database of a newly established e-commerce website. The database contains multiple tables i.e. products, orders, transactions, and customers. The information about required tables is given below

Table **product**

Attributes list

Attributes	Data Type
item_id	INT (Primary Key)
product_id	INT
pname	VARCHAR (225)
inStock	CHAR
price	DOUBLE
arrival_days	INT
seller	VARCHAR (225)
youSave	DOUBLE

Data list

item_id	product_id	p_name	inStock	price	arrival_days	seller	youSave
1	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
2	2223	optimum whey protien	Y	1614	7	Cloudtail India	245
3	7556	Iphone 11 (128GB)	Y	53500	4	Kukreja Telecom Store	1400
4	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
5	99	Mini organising tech kit	Y	1400	2	dailyen	200
6	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
7	5454	Iphone 11 (64GB)	Y	46999	3	Maple Store	3000
8	4324	Women's Cotton Blend Straight Kurti with Palazzos	Y	549	10	Maxx Store	1000
9	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
10	9753	OnePlus Buds Z	N	2999	3	Appario Retail Private Ltd	191
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12	6477	Ikigai: The Japanese secret to a long and happy life	Y	427	3	Cloudtail India	123
13	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
14	1111	Solimo Trance High Back Mesh Contemporary Office Chair (Black)	Y	7599	4	Cloudtail India	5901
15	2222	Nayasa 2 in 1 Dustbin - Dry Waste and Wet Waste Dustbin (33 Ltrs) - Big	Y	1339	7	Cloudtail India	189
16	5555	Ben Martin Men's Relaxed Jeans	N	698	12	Maxx Store	100
17	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
18	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
19	2223	optimum whey protien	Y	1614	7	Cloudtail India	245
20	529	MI Mobile cover	Y	999	5	dailyen	500
21	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
22	7556	Iphone 11 (128GB)	Y	54900	7	Sunil mobile Store	0
23	9753	OnePlus Buds Z	N	4000	5	sekhri telecoms	200
24	5454	Iphone 11 (64GB)	Y	43999	7	imagine store	6000

Select product_id, seller, count(*) from product
Group by product_id, seller Having count(*)>1;

17-Tut : Query - 17

[Send Feedback](#)

Problem Statement

List down the count of all the similar products available across all its sellers.

Information about the tables:

Given below is a database of a newly established e-commerce website. The database contains multiple tables i.e. products, orders, transactions, and customers. The information about required tables is given below

Table product

Attributes list

Attributes	Data Type
item_id	INT (Primary Key)
product_id	INT
pname	VARCHAR (225)
inStock	CHAR
price	DOUBLE
arrival_days	INT
seller	VARCHAR (225)
youSave	DOUBLE

Data list

item_id	product_id	p_name	inStock	price	arrival_days	seller	youSave
1	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
2	2223	optimum whey protien	Y	1614	7	Cloudtail India	245
3	7556	Iphone 11 (128GB)	Y	53500	4	Kukreja Telecom Store	1400
4	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
5	99	Mini organising tech kit	Y	1400	2	dailyen	200
6	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
7	5454	Iphone 11 (64GB)	Y	46999	3	Maple Store	3000
8	4324	Women's Cotton Blend Straight Kurti with Palazzos	Y	549	10	Maxx Store	1000
9	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
10	9753	OnePlus Buds Z	N	2999	3	Appario Retail Private Ltd	191
11	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
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13	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
14	1111	Solimo Trance High Back Mesh Contemporary Office Chair (Black)	Y	7599	4	Cloudtail India	5901
15	2222	Nayasa 2 in 1 Dustbin - Dry Waste and Wet Waste Dustbin (33 Ltrs) - Big	Y	1339	7	Cloudtail India	189
16	5555	Ben Martin Men's Relaxed Jeans	N	698	12	Maxx Store	100
17	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
18	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
19	2223	optimum whey protien	Y	1614	7	Cloudtail India	245
20	529	MI Mobile cover	Y	999	5	dailyen	500
21	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
22	7556	Iphone 11 (128GB)	Y	54900	7	Sunil mobile Store	0
23	9753	OnePlus Buds Z	N	4000	5	sekhri telecoms	200
24	5454	Iphone 11 (64GB)	Y	43999	7	imagine store	6000

```
SELECT DISTINCT p.product_id, p.p_name, p.inStock, p.seller, q.countSame
FROM product p
INNER JOIN
(SELECT product_id, p_name, inStock, COUNT(*) as countSame
```

```

FROM product
GROUP BY product_id, p_name, inStock
HAVING COUNT(*) > 1) q
ON p.product_id = q.product_id
AND p.p_name = q.p_name
AND p.inStock = q.inStock
ORDER BY p.product_id, p.p_name, p.inStock, p.seller;

```

18-Tut : Query - 18

[Send Feedback](#)

Problem Statement

What is an Average total saving amount on the products sold by Maple store or Kukreja Telecom Store?

Information about the tables:

Given below is a database of a newly established e-commerce website. The database contains multiple tables i.e. products, orders, transactions, and customers. The information about required tables is given below

Table **product**

Attributes list

Attributes	Data Type
item_id	INT (Primary Key)
product_id	INT
pname	VARCHAR (225)
inStock	CHAR
price	DOUBLE
arrival_days	INT
seller	VARCHAR (225)
youSave	DOUBLE

Data list

item_id	product_id	p_name	inStock	price	arrival_days	seller	youSave
1	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
2	2223	optimum whey protien	Y	1614	7	Cloutail India	245
3	7556	Iphone 11 (128GB)	Y	53500	4	Kukreja Telecom Store	1400
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8	4324	Women's Cotton Blend Straight Kurti with Palazzos	Y	549	10	Maxx Store	1000
9	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
10	9753	OnePlus Buds Z	N	2999	3	Appario Retail Private Ltd	191
11	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
12	6477	Ikigai: The Japanese secret to a long and happy life	Y	427	3	Cloutail India	123
13	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
14	1111	Solimo Trance High Back Mesh Contemporary Office Chair (Black)	Y	7599	4	Cloutail India	5901
15	2222	Nayasa 2 in 1 Dustbin - Dry Waste and Wet Waste Dustbin (33 Ltrs) - Big	Y	1339	7	Cloutail India	189
16	5555	Ben Martin Men's Relaxed Jeans	N	698	12	Maxx Store	100
17	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
18	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
19	2223	optimum whey protien	Y	1614	7	Cloutail India	245
20	529	MI Mobile cover	Y	999	5	dailyen	500
21	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
22	7556	Iphone 11 (128GB)	Y	54900	7	Sunil mobile Store	0
23	9753	OnePlus Buds Z	N	4000	5	sekhri telecoms	200
24	5454	Iphone 11 (64GB)	Y	43999	7	imagine store	6000

```
SELECT AVG(TOTAL)
FROM (SELECT product_id, SUM(youSave) AS TOTAL
      FROM product GROUP BY product_id ) AS TOTALS
WHERE product_id IN
      (SELECT product_id
      FROM product
      WHERE seller = 'Maple Store' OR seller = 'Kukreja Telecom Store');
```

19-Tut : Query - 19

[Send Feedback](#)

Problem Statement

For each product, list down the min price of the product and the average percentage of savings available across all the sellers who sell more than one product.

Information about the tables:

Given below is a database of a newly established e-commerce website. The database contains multiple tables i.e. products, orders, transactions, and customers. The information about required tables is given below

Table **product**

Attributes list

Attributes	Data Type
item_id	INT (Primary Key)
product_id	INT
pname	VARCHAR (225)
inStock	CHAR
price	DOUBLE
arrival_days	INT
seller	VARCHAR (225)
youSave	DOUBLE

Data list

item_id	product_id	p_name	inStock	price	arrival_days	seller	youSave
1	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
2	2223	optimum whey protien	Y	1614	7	Cloudtail India	245
3	7556	Iphone 11 (128GB)	Y	53500	4	Kukreja Telecom Store	1400
4	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
5	99	Mini organising tech kit	Y	1400	2	dailyen	200
6	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
7	5454	Iphone 11 (64GB)	Y	46999	3	Maple Store	3000
8	4324	Women's Cotton Blend Straight Kurti with Palazzos	Y	549	10	Maxx Store	1000
9	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
10	9753	OnePlus Buds Z	N	2999	3	Appario Retail Private Ltd	191
11	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
12	6477	Ikigai: The Japanese secret to a long and happy life	Y	427	3	Cloudtail India	123
13	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
14	1111	Solimo Trance High Back Mesh Contemporary Office Chair (Black)	Y	7599	4	Cloudtail India	5901
15	2222	Nayasa 2 in 1 Dustbin - Dry Waste and Wet Waste Dustbin (33 Ltrs) - Big	Y	1339	7	Cloudtail India	189
16	5555	Ben Martin Men's Relaxed Jeans	N	698	12	Maxx Store	100
17	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
18	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
19	2223	optimum whey protien	Y	1614	7	Cloudtail India	245
20	529	Mi Mobile cover	Y	999	5	dailyen	500
21	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
22	7556	Iphone 11 (128GB)	Y	54900	7	Sunil mobile Store	0
23	9753	OnePlus Buds Z	N	4000	5	sekhi telecoms	200
24	5454	Iphone 11 (64GB)	Y	43999	7	imagine store	6000

Output

The result set should have product id, product name, minimum price and average percentage as avgP.

```
SELECT product_id,p_name,MIN(price),AVG(youSave*100)/SUM(youSave) AS avgP
FROM product
GROUP BY product_id,p_name
HAVING COUNT(*) > 1;
```

20-Tut : Query - 20

[Send Feedback](#)

Problem Statement

Enlist all the customers_id and their name for all the products names?

Information about the tables:

Given below is a database of a newly established e-commerce website. The database contains multiple tables i.e. products, orders, transactions, and customers. The information about required tables is given below

Table product

Attributes list

Attributes	Data Type
item_id	INT (Primary Key)
product_id	INT
pname	VARCHAR (225)
inStock	CHAR
price	DOUBLE
arrival_days	INT
seller	VARCHAR (225)
youSave	DOUBLE

Data list

item_id	product_id	p_name	inStock	price	arrival_days	seller	youSave
1	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
2	2223	optimum whey protien	Y	1614	7	Cloudtail India	245
3	7556	Iphone 11 (128GB)	Y	53500	4	Kukreja Telecom Store	1400
4	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
5	99	Mini organising tech kit	Y	1400	2	dailyen	200
6	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
7	5454	Iphone 11 (64GB)	Y	46999	3	Maple Store	3000
8	4324	Women's Cotton Blend Straight Kurti with Palazzos	Y	549	10	Maxx Store	1000
9	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
10	9753	OnePlus Buds Z	N	2999	3	Appario Retail Private Ltd	191
11	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
12	6477	Ikigai: The Japanese secret to a long and happy life	Y	427	3	Cloudtail India	123
13	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
14	1111	Solimo Trance High Back Mesh Contemporary Office Chair (Black)	Y	7599	4	Cloudtail India	5901
15	2222	Nayasa 2 in 1 Dustbin - Dry Waste and Wet Waste Dustbin (33 Ltrs) - Big	Y	1339	7	Cloudtail India	189
16	5555	Ben Martin Men's Relaxed Jeans	N	698	12	Maxx Store	100
17	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
18	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
19	2223	optimum whey protien	Y	1614	7	Cloudtail India	245
20	529	Mi Mobile cover	Y	999	5	dailyen	500
21	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
22	7556	Iphone 11 (128GB)	Y	54900	7	Sunil mobile Store	0
23	9753	OnePlus Buds Z	N	4000	5	sekhri telecoms	200
24	5454	Iphone 11 (64GB)	Y	43999	7	imagine store	6000

Output

The result set should have the product name, customer id and customer name.

```
SELECT DISTINCT p1.p_name,c1.customer_id,c1.customer_name
FROM product p1 INNER JOIN orders as o1 ON o1.product_id = p1.product_id
INNER JOIN customer as c1 ON o1.customer_id = c1.customer_id;
```

21-Tut : Query - 21

[Send Feedback](#)

Problem Statement

Get the product_ID and the total sale of each product ordered?

Information about the tables:

Given below is a database of a newly established e-commerce website. The database contains multiple tables i.e. products, orders, transactions, and customers. The information about required tables is given below

Table **product**

Attributes list

Attributes	Data Type
item_id	INT (Primary Key)
product_id	INT
pname	VARCHAR (225)
inStock	CHAR
price	DOUBLE
arrival_days	INT
seller	VARCHAR (225)
youSave	DOUBLE

Data list

item_id	product_id	p_name	inStock	price	arrival_days	seller	youSave
1	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
2	2223	optimum whey protien	Y	1614	7	Cloutail India	245
3	7556	Iphone 11 (128GB)	Y	53500	4	Kukreja Telecom Store	1400
4	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
5	99	Mini organising tech kit	Y	1400	2	dailyen	200
6	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
7	5454	Iphone 11 (64GB)	Y	46999	3	Maple Store	3000
8	4324	Women's Cotton Blend Straight Kurti with Palazzos	Y	549	10	Maxx Store	1000
9	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
10	9753	OnePlus Buds Z	N	2999	3	Appario Retail Private Ltd	191
11	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
12	6477	Ikigai: The Japanese secret to a long and happy life	Y	427	3	Cloutail India	123
13	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
14	1111	Solimo Trance High Back Mesh Contemporary Office Chair (Black)	Y	7599	4	Cloutail India	5901
15	2222	Nayasa 2 in 1 Dustbin - Dry Waste and Wet Waste Dustbin (33 Ltrs) - Big	Y	1339	7	Cloutail India	189
16	5555	Ben Martin Men's Relaxed Jeans	N	698	12	Maxx Store	100
17	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
18	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
19	2223	optimum whey protien	Y	1614	7	Cloutail India	245
20	529	MI Mobile cover	Y	999	5	dailyen	500
21	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
22	7556	Iphone 11 (128GB)	Y	54900	7	Sunil mobile Store	0
23	9753	OnePlus Buds Z	N	4000	5	sekhri telecoms	200
24	5454	Iphone 11 (64GB)	Y	43999	7	imagine store	6000

Table order

Attributes list:

Attributes	Data Type
order_id	INT (Primary Key)
product_id	INT
customer_id	INT
payment_date	DATE
est_delivery_date	DATE
transaction_days	INT

Data list:

order_id	product_id	customer_id	checkout_price	payment_date	est_delivery_date	transaction_id
oid1	7777	cid3	63999	2021-11-12	2021-11-14	tid1
oid2	7556	cid1	51300	2021-11-09	2021-11-13	tid2
oid3	6754	cid5	591	2021-11-24	2021-12-03	tid3
oid4	7556	cid3	51300	2021-11-10	2021-11-14	tid4
oid5	6477	cid2	500	2021-11-06	2021-11-09	tid5
oid6	2223	cid7	1514	2021-11-27	2021-12-04	tid6

Information about the table **transactions**

Attributes list

Attributes	Data Type
transaction_id	VARCHAR (20) (Primary Key)
transaction_status	VARCHAR (25)

Data list:

transaction_id	transaction_status
tid1	completed
tid2	not completed
tid3	not completed
tid4	completed
tid5	completed
tid6	not completed

Table **customers**

Attributes list

Attributes	Data Type
customer_id	VARCHAR (20) (Primary Key)
customer_name	VARCHAR (225)
phone_no	INT
city	VARCHAR (200)
pin_code	INT

Data list

customer_id	customer_name	phone_no	city	pin_code
cid1	Riya Khanna	987655443	Delhi	110005
cid2	Sahil Kumar	987657643	Mumbai	230532
cid3	Vishwas Aanand	987658871	Kolkata	700007
cid4	Harleen Kaur	987677585	Bengaluru	560006
cid5	Priyanshu Gupta	956758556	Hyderabad	500012
cid6	Lokesh Ravaliya	998295561	Bikaner	334003
cid7	Kuldeep Daga	997757204	Mandsaur	458001
cid8	Vaibhav Jain	987677757	Jalandhar	144002
cid9	Lokesh Gupta	956758500	Hyderabad	500013

Output

The result set should have product_id , and count of products as attributes.

```
SELECT product_id,COUNT(product_id)
FROM orders GROUP BY product_id;
```

22-Tut : Query - 22

[Send Feedback](#)

Problem Statement

Enlist the transaction_status for all products ordered?

Information about the tables:

Given below is a database of a newly established e-commerce website. The database contains multiple tables i.e. products, orders, transactions, and customers. The information about required tables is given below

Table product

Attributes list

Attributes	Data Type
item_id	INT (Primary Key)
product_id	INT
pname	VARCHAR (225)
inStock	CHAR
price	DOUBLE
arrival_days	INT
seller	VARCHAR (225)
youSave	DOUBLE

Data list

item_id	product_id	p_name	inStock	price	arrival_days	seller	youSave
1	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
2	2223	optimum whey protien	Y	1614	7	Cloutail India	245
3	7556	Iphone 11 (128GB)	Y	53500	4	Kukreja Telecom Store	1400
4	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
5	99	Mini organising tech kit	Y	1400	2	dailyen	200
6	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
7	5454	Iphone 11 (64GB)	Y	46999	3	Maple Store	3000
8	4324	Women's Cotton Blend Straight Kurti with Palazzos	Y	549	10	Maxx Store	1000
9	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
10	9753	OnePlus Buds Z	N	2999	3	Appario Retail Private Ltd	191
11	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
12	6477	Ikigai: The Japanese secret to a long and happy life	Y	427	3	Cloutail India	123
13	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
14	1111	Solimo Trance High Back Mesh Contemporary Office Chair (Black)	Y	7599	4	Cloutail India	5901
15	2222	Nayasa 2 in 1 Dustbin - Dry Waste and Wet Waste Dustbin (33 Ltrs) - Big	Y	1339	7	Cloutail India	189
16	5555	Ben Martin Men's Relaxed Jeans	N	698	12	Maxx Store	100
17	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
18	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
19	2223	optimum whey protien	Y	1614	7	Cloutail India	245
20	529	MI Mobile cover	Y	999	5	dailyen	500
21	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
22	7556	Iphone 11 (128GB)	Y	54900	7	Sunil mobile Store	0
23	9753	OnePlus Buds Z	N	4000	5	sekhri telecoms	200
24	5454	Iphone 11 (64GB)	Y	43999	7	imagine store	6000

Table order

Attributes list:

Attributes	Data Type
order_id	INT (Primary Key)
product_id	INT
customer_id	INT
payment_date	DATE
est_delivery_date	DATE
transaction_days	INT

Data list:

order_id	product_id	customer_id	checkout_price	payment_date	est_delivery_date	transaction_id
oid1	7777	cid3	63999	2021-11-12	2021-11-14	tid1
oid2	7556	cid1	51300	2021-11-09	2021-11-13	tid2
oid3	6754	cid5	591	2021-11-24	2021-12-03	tid3
oid4	7556	cid3	51300	2021-11-10	2021-11-14	tid4
oid5	6477	cid2	500	2021-11-06	2021-11-09	tid5
oid6	2223	cid7	1514	2021-11-27	2021-12-04	tid6

Information about the table **transactions**

Attributes list

Attributes	Data Type
transaction_id	VARCHAR (20) (Primary Key)
transaction_status	VARCHAR (25)

Data list:

transaction_id	transaction_status
tid1	completed
tid2	not completed
tid3	not completed
tid4	completed
tid5	completed
tid6	not completed

```
SELECT T1.transaction_id
FROM orders AS o1 LEFT JOIN transactions T1 ON
o1.transaction_id = T1.transaction_id;
```

23-Tut : Query - 23

[Send Feedback](#)

Problem Statement

List all the product names with their respective payment date and delivery date and sort the output table w.r.t to delivery date?

Information about the tables:

Given below is a database of a newly established e-commerce website. The database contains multiple tables i.e. products, orders, transactions, and customers. The information about required tables is given below

Table product

Attributes list

Attributes	Data Type
item_id	INT (Primary Key)
product_id	INT
pname	VARCHAR (225)
inStock	CHAR
price	DOUBLE
arrival_days	INT
seller	VARCHAR (225)
youSave	DOUBLE

Data list

item_id	product_id	p_name	inStock	price	arrival_days	seller	youSave
1	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
2	2223	optimum whey protien	Y	1614	7	Cloutail India	245
3	7556	Iphone 11 (128GB)	Y	53500	4	Kukreja Telecom Store	1400
4	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
5	99	Mini organising tech kit	Y	1400	2	dailyen	200
6	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
7	5454	Iphone 11 (64GB)	Y	46999	3	Maple Store	3000
8	4324	Women's Cotton Blend Straight Kurti with Palazzos	Y	549	10	Maxx Store	1000
9	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
10	9753	OnePlus Buds Z	N	2999	3	Appario Retail Private Ltd	191
11	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
12	6477	Ikigai: The Japanese secret to a long and happy life	Y	427	3	Cloutail India	123
13	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
14	1111	Solimo Trance High Back Mesh Contemporary Office Chair (Black)	Y	7599	4	Cloutail India	5901
15	2222	Nayasa 2 in 1 Dustbin - Dry Waste and Wet Waste Dustbin (33 Ltrs) - Big	Y	1339	7	Cloutail India	189
16	5555	Ben Martin Men's Relaxed Jeans	N	698	12	Maxx Store	100
17	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
18	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
19	2223	optimum whey protien	Y	1614	7	Cloutail India	245
20	529	Mi Mobile cover	Y	999	5	dailyen	500
21	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
22	7556	Iphone 11 (128GB)	Y	54900	7	Sunil mobile Store	0
23	9753	OnePlus Buds Z	N	4000	5	sekhri telecoms	200
24	5454	Iphone 11 (64GB)	Y	43999	7	imagine store	6000

Table order

Attributes list:

Attributes	Data Type
order_id	INT (Primary Key)
product_id	INT
customer_id	INT
payment_date	DATE
est_delivery_date	DATE
transaction_days	INT

Data list:

order_id	product_id	customer_id	checkout_price	payment_date	est_delivery_date	transaction_id
oid1	7777	cid3	63999	2021-11-12	2021-11-14	tid1
oid2	7556	cid1	51300	2021-11-09	2021-11-13	tid2
oid3	6754	cid5	591	2021-11-24	2021-12-03	tid3
oid4	7556	cid3	51300	2021-11-10	2021-11-14	tid4
oid5	6477	cid2	500	2021-11-06	2021-11-09	tid5
oid6	2223	cid7	1514	2021-11-27	2021-12-04	tid6

Table **transactions**

Attributes list

Attributes	Data Type
transaction_id	VARCHAR (20) (Primary Key)
transaction_status	VARCHAR (25)

Data list:

transaction_id	transaction_status
tid1	completed
tid2	not completed
tid3	not completed
tid4	completed
tid5	completed
tid6	not completed

Output

The result set should have the product name, payment date and delivery date as columns.

```
SELECT DISTINCT p1.p_name,o1.payment_date,o1.est_delivery_date
FROM product p1 INNER JOIN orders o1
on o1.product_id = p1.product_id
ORDER BY est_delivery_date;
```

24-Tut : **Query - 24**

[Send Feedback](#)

Problem Statement

List all the not completed transaction_status for all order_id?

Information about the tables:

Given below is a database of a newly established e-commerce website. The database contains multiple tables i.e. products, orders, transactions, and customers. The information about required tables is given below

Table product

Attributes list

Attributes	Data Type
item_id	INT (Primary Key)
product_id	INT
pname	VARCHAR (225)
inStock	CHAR
price	DOUBLE
arrival_days	INT
seller	VARCHAR (225)
youSave	DOUBLE

Data list

item_id	product_id	p_name	inStock	price	arrival_days	seller	youSave
1	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
2	2223	optimum whey protien	Y	1614	7	Cloutail India	245
3	7556	Iphone 11 (128GB)	Y	53500	4	Kukreja Telecom Store	1400
4	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
5	99	Mini organising tech kit	Y	1400	2	dailyen	200
6	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
7	5454	Iphone 11 (64GB)	Y	46999	3	Maple Store	3000
8	4324	Women's Cotton Blend Straight Kurti with Palazzos	Y	549	10	Maxx Store	1000
9	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
10	9753	OnePlus Buds Z	N	2999	3	Appario Retail Private Ltd	191
11	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
12	6477	Ikigai: The Japanese secret to a long and happy life	Y	427	3	Cloutail India	123
13	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
14	1111	Solimo Trance High Back Mesh Contemporary Office Chair (Black)	Y	7599	4	Cloutail India	5901
15	2222	Nayasa 2 in 1 Dustbin - Dry Waste and Wet Waste Dustbin (33 Ltrs) - Big	Y	1339	7	Cloutail India	189
16	5555	Ben Martin Men's Relaxed Jeans	N	698	12	Maxx Store	100
17	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
18	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
19	2223	optimum whey protien	Y	1614	7	Cloutail India	245
20	529	MI Mobile cover	Y	999	5	dailyen	500
21	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
22	7556	Iphone 11 (128GB)	Y	54900	7	Sunil mobile Store	0
23	9753	OnePlus Buds Z	N	4000	5	sekhri telecoms	200
24	5454	Iphone 11 (64GB)	Y	43999	7	imagine store	6000

Table **order**

Attributes list:

Attributes	Data Type
order_id	INT (Primary Key)
product_id	INT
customer_id	INT
payment_date	DATE
est_delivery_date	DATE
transaction_days	INT

Data list:

order_id	product_id	customer_id	checkout_price	payment_date	est_delivery_date	transaction_id
oid1	7777	cid3	63999	2021-11-12	2021-11-14	tid1
oid2	7556	cid1	51300	2021-11-09	2021-11-13	tid2
oid3	6754	cid5	591	2021-11-24	2021-12-03	tid3
oid4	7556	cid3	51300	2021-11-10	2021-11-14	tid4
oid5	6477	cid2	500	2021-11-06	2021-11-09	tid5
oid6	2223	cid7	1514	2021-11-27	2021-12-04	tid6

Table **transactions**

Attributes list

Attributes	Data Type
transaction_id	VARCHAR (20) (Primary Key)
transaction_status	VARCHAR (25)

Data list:

transaction_id	transaction_status
tid1	completed
tid2	not completed
tid3	not completed
tid4	completed
tid5	completed
tid6	not completed

Output

The result set should have the Id, product's Id, customer's Id and the transaction Id's.

```
SELECT o1.order_id,o1.product_id,o1.customer_id,o1.transaction_id
FROM orders o1 JOIN transactions T1 ON T1.transaction_id = o1.transaction_id
WHERE T1.transaction_status = 'not completed';
```

25-Tut : Query - 25

[Send Feedback](#)

Problem Statement

List down the product names along with the details like the time the payment for the order was made and delivery date along with the transaction status of that product by the customer and sort it according to their respective payment date.

Information about the tables:

Given below is a database of a newly established e-commerce website. The database contains multiple tables i.e. products, orders, transactions, and customers. The information about required tables is given below

Table **product**

Attributes	Data Type
item_id	INT (Primary Key)
product_id	INT
pname	VARCHAR (225)
inStock	CHAR
price	DOUBLE
arrival_days	INT
seller	VARCHAR (225)
youSave	DOUBLE

Attributes list

Data list

item_id	product_id	p_name	inStock	price	arrival_days	seller	youSave
1	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
2	2223	optimum whey protien	Y	1614	7	Cloutail India	245
3	7556	Iphone 11 (128GB)	Y	53500	4	Kukreja Telecom Store	1400
4	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
5	99	Mini organising tech kit	Y	1400	2	dailyen	200
6	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
7	5454	Iphone 11 (64GB)	Y	46999	3	Maple Store	3000
8	4324	Women's Cotton Blend Straight Kurti with Palazzos	Y	549	10	Maxx Store	1000
9	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
10	9753	OnePlus Buds Z	N	2999	3	Appario Retail Private Ltd	191
11	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
12	6477	Ikigai: The Japanese secret to a long and happy life	Y	427	3	Cloutail India	123
13	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
14	1111	Solimo Trance High Back Mesh Contemporary Office Chair (Black)	Y	7599	4	Cloutail India	5901
15	2222	Nayasa 2 in 1 Dustbin - Dry Waste and Wet Waste Dustbin (33 Ltrs) - Big	Y	1339	7	Cloutail India	189
16	5555	Ben Martin Men's Relaxed Jeans	N	698	12	Maxx Store	100
17	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
18	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
19	2223	optimum whey protien	Y	1614	7	Cloutail India	245
20	529	MI Mobile cover	Y	999	5	dailyen	500
21	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
22	7556	Iphone 11 (128GB)	Y	54900	7	Sunil mobile Store	0
23	9753	OnePlus Buds Z	N	4000	5	sekhri telecoms	200
24	5454	Iphone 11 (64GB)	Y	43999	7	imagine store	6000

Table order

Attributes	Data Type
order_id	INT (Primary Key)
product_id	INT
customer_id	INT
payment_date	DATE
est_delivery_date	DATE
transaction_days	INT

Attributes list:

Data list:

order_id	product_id	customer_id	checkout_price	payment_date	est_delivery_date	transaction_id
oid1	7777	cid3	63999	2021-11-12	2021-11-14	tid1
oid2	7556	cid1	51300	2021-11-09	2021-11-13	tid2
oid3	6754	cid5	591	2021-11-24	2021-12-03	tid3
oid4	7556	cid3	51300	2021-11-10	2021-11-14	tid4
oid5	6477	cid2	500	2021-11-06	2021-11-09	tid5
oid6	2223	cid7	1514	2021-11-27	2021-12-04	tid6

Table **transactions**

Attributes	Data Type
transaction_id	VARCHAR (20) (Primary Key)
transaction_status	VARCHAR (25)

Attributes list

transaction_id	transaction_status
tid1	completed
tid2	not completed
tid3	not completed
tid4	completed
tid5	completed
tid6	not completed

Data list:

Table **customers**

Attributes	Data Type
customer_id	VARCHAR (20) (Primary Key)
customer_name	VARCHAR (225)
phone_no	INT
city	VARCHAR (200)
pin_code	INT

Attributes list

Data list

customer_id	customer_name	phone_no	city	pin_code
cid1	Riya Khanna	987655443	Delhi	110005
cid2	Sahil Kumar	987657643	Mumbai	230532
cid3	Vishwas Aanand	987658871	Kolkata	700007
cid4	Harleen Kaur	987677585	Bengaluru	560006
cid5	Priyanshu Gupta	956758556	Hyderabad	500012
cid6	Lokesh Ravaliya	998295561	Bikaner	334003
cid7	Kuldeep Daga	997757204	Mandsaur	458001
cid8	Vaibhav Jain	987677757	Jalandhar	144002
cid9	Lokesh Gupta	956758500	Hyderabad	500013

```

SELECT distinct product.p_name, orders.payment_date, orders.est_delivery_date,
transactions.transaction_status
FROM product
INNER JOIN orders ON product.product_id = orders.product_id
INNER JOIN transactions ON orders.transaction_id = transactions.transaction_id
ORDER BY orders.payment_date;

```

26-Tut : Query - 26

[Send Feedback](#)

Problem Statement

Enlist all orders for a customer with a “d” in their name?

Information about the tables:

Given below is a database of a newly established e-commerce website. The database contains multiple tables i.e. products, orders, transactions, and customers. The information about required tables is given below

Table **product**

Attributes	Data Type
item_id	INT (Primary Key)
product_id	INT
pname	VARCHAR (225)
inStock	CHAR
price	DOUBLE
arrival_days	INT
seller	VARCHAR (225)
youSave	DOUBLE

Attributes list

Data list

item_id	product_id	p_name	inStock	price	arrival_days	seller	youSave
1	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
2	2223	optimum whey protien	Y	1614	7	Cloutail India	245
3	7556	Iphone 11 (128GB)	Y	53500	4	Kukreja Telecom Store	1400
4	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
5	99	Mini organising tech kit	Y	1400	2	dailyen	200
6	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
7	5454	Iphone 11 (64GB)	Y	46999	3	Maple Store	3000
8	4324	Women's Cotton Blend Straight Kurti with Palazzos	Y	549	10	Maxx Store	1000
9	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
10	9753	OnePlus Buds Z	N	2999	3	Appario Retail Private Ltd	191
11	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
12	6477	Ikigai: The Japanese secret to a long and happy life	Y	427	3	Cloutail India	123
13	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
14	1111	Solimo Trance High Back Mesh Contemporary Office Chair (Black)	Y	7599	4	Cloutail India	5901
15	2222	Nayasa 2 in 1 Dustbin - Dry Waste and Wet Waste Dustbin (33 Ltrs) - Big	Y	1339	7	Cloutail India	189
16	5555	Ben Martin Men's Relaxed Jeans	N	698	12	Maxx Store	100
17	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
18	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
19	2223	optimum whey protien	Y	1614	7	Cloutail India	245
20	529	MI Mobile cover	Y	999	5	dailyen	500
21	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
22	7556	Iphone 11 (128GB)	Y	54900	7	Sunil mobile Store	0
23	9753	OnePlus Buds Z	N	4000	5	sekhri telecoms	200
24	5454	Iphone 11 (64GB)	Y	43999	7	imagine store	6000

Table order

Attributes	Data Type
order_id	INT (Primary Key)
product_id	INT
customer_id	INT
payment_date	DATE
est_delivery_date	DATE
transaction_days	INT

Attributes list:

Data list:

order_id	product_id	customer_id	checkout_price	payment_date	est_delivery_date	transaction_id
oid1	7777	cid3	63999	2021-11-12	2021-11-14	tid1
oid2	7556	cid1	51300	2021-11-09	2021-11-13	tid2
oid3	6754	cid5	591	2021-11-24	2021-12-03	tid3
oid4	7556	cid3	51300	2021-11-10	2021-11-14	tid4
oid5	6477	cid2	500	2021-11-06	2021-11-09	tid5
oid6	2223	cid7	1514	2021-11-27	2021-12-04	tid6

Table **transactions**

Attributes	Data Type
transaction_id	VARCHAR (20) (Primary Key)
transaction_status	VARCHAR (25)

Attributes list

transaction_id	transaction_status
tid1	completed
tid2	not completed
tid3	not completed
tid4	completed
tid5	completed
tid6	not completed

Data list:

Table **customers**

Attributes	Data Type
customer_id	VARCHAR (20) (Primary Key)
customer_name	VARCHAR (225)
phone_no	INT
city	VARCHAR (200)
pin_code	INT

Attributes list

Data list

customer_id	customer_name	phone_no	city	pin_code
cid1	Riya Khanna	987655443	Delhi	110005
cid2	Sahil Kumar	987657643	Mumbai	230532
cid3	Vishwas Aanand	987658871	Kolkata	700007
cid4	Harleen Kaur	987677585	Bengaluru	560006
cid5	Priyanshu Gupta	956758556	Hyderabad	500012
cid6	Lokesh Ravaliya	998295561	Bikaner	334003
cid7	Kuldeep Daga	997757204	Mandsaur	458001
cid8	Vaibhav Jain	987677757	Jalandhar	144002
cid9	Lokesh Gupta	956758500	Hyderabad	500013

Output

The result set should have the customer's name and order's id.

```
SELECT c1.customer_name,o1.order_id
FROM customer c1
JOIN orders o1 ON o1.customer_id = c1.customer_id
WHERE c1.customer_name LIKE '%d%';
```

27-Tut : Query - 27

[Send Feedback](#)

Problem Statement

List total payments received from all customers of the e-commerce website?

Information about the tables:

Given below is a database of a newly established e-commerce website. The database contains multiple tables i.e. products, orders, transactions, and customers. The information about required tables is given below

Table **product**

Attributes	Data Type
item_id	INT (Primary Key)
product_id	INT
pname	VARCHAR (225)
inStock	CHAR
price	DOUBLE
arrival_days	INT
seller	VARCHAR (225)
youSave	DOUBLE

Attributes list

Data list

item_id	product_id	p_name	inStock	price	arrival_days	seller	youSave
1	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
2	2223	optimum whey protien	Y	1614	7	Cloutail India	245
3	7556	Iphone 11 (128GB)	Y	53500	4	Kukreja Telecom Store	1400
4	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
5	99	Mini organising tech kit	Y	1400	2	dailyen	200
6	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
7	5454	Iphone 11 (64GB)	Y	46999	3	Maple Store	3000
8	4324	Women's Cotton Blend Straight Kurti with Palazzos	Y	549	10	Maxx Store	1000
9	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
10	9753	OnePlus Buds Z	N	2999	3	Appario Retail Private Ltd	191
11	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
12	6477	Ikigai: The Japanese secret to a long and happy life	Y	427	3	Cloutail India	123
13	7556	Iphone 11 (128GB)	N	51300.05	5	Maple Store	3600
14	1111	Solimo Trance High Back Mesh Contemporary Office Chair (Black)	Y	7599	4	Cloutail India	5901
15	2222	Nayasa 2 in 1 Dustbin - Dry Waste and Wet Waste Dustbin (33 Ltrs) - Big	Y	1339	7	Cloutail India	189
16	5555	Ben Martin Men's Relaxed Jeans	N	698	12	Maxx Store	100
17	7777	OnePlus 9 Pro 5G (256GB)	Y	65999	2	Darshita Etel	4000
18	6754	Inalsa Electric Kettle Absa (Black/Silver)	Y	591	9	k3stores	10040
19	2223	optimum whey protien	Y	1614	7	Cloutail India	245
20	529	MI Mobile cover	Y	999	5	dailyen	500
21	5655	Redmi 9 Activ (128GB)	N	10999	3	Darshita Electronics	200
22	7556	Iphone 11 (128GB)	Y	54900	7	Sunil mobile Store	0
23	9753	OnePlus Buds Z	N	4000	5	sekhri telecoms	200
24	5454	Iphone 11 (64GB)	Y	43999	7	imagine store	6000

Table order

Attributes	Data Type
order_id	INT (Primary Key)
product_id	INT
customer_id	INT
payment_date	DATE
est_delivery_date	DATE
transaction_days	INT

Attributes list:

Data list:

order_id	product_id	customer_id	checkout_price	payment_date	est_delivery_date	transaction_id
oid1	7777	cid3	63999	2021-11-12	2021-11-14	tid1
oid2	7556	cid1	51300	2021-11-09	2021-11-13	tid2
oid3	6754	cid5	591	2021-11-24	2021-12-03	tid3
oid4	7556	cid3	51300	2021-11-10	2021-11-14	tid4
oid5	6477	cid2	500	2021-11-06	2021-11-09	tid5
oid6	2223	cid7	1514	2021-11-27	2021-12-04	tid6

Table **transactions**

Attributes	Data Type
transaction_id	VARCHAR (20) (Primary Key)
transaction_status	VARCHAR (25)

Attributes list

transaction_id	transaction_status
tid1	completed
tid2	not completed
tid3	not completed
tid4	completed
tid5	completed
tid6	not completed

Data list:

Table **customers**

Attributes	Data Type
customer_id	VARCHAR (20) (Primary Key)
customer_name	VARCHAR (225)
phone_no	INT
city	VARCHAR (200)
pin_code	INT

Attributes list

Data list

customer_id	customer_name	phone_no	city	pin_code
cid1	Riya Khanna	987655443	Delhi	110005
cid2	Sahil Kumar	987657643	Mumbai	230532
cid3	Vishwas Aanand	987658871	Kolkata	700007
cid4	Harleen Kaur	987677585	Bengaluru	560006
cid5	Priyanshu Gupta	956758556	Hyderabad	500012
cid6	Lokesh Ravaliya	998295561	Bikaner	334003
cid7	Kuldeep Daga	997757204	Mandsaur	458001
cid8	Vaibhav Jain	987677757	Jalandhar	144002
cid9	Lokesh Gupta	956758500	Hyderabad	500013

Output

The result set should have the Customer's Id and the total payment they have made for all the orders.

```
SELECT c1.customer_id,SUM(o1.checkout_price) AS totalpayment FROM customer as c1  
LEFT JOIN orders o1  
ON o1.customer_id = c1.customer_id  
GROUP by customer_id;
```

28-Tut :