
INVENTORY MANAGEMENT

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1. DESCRIPTION

In today's data-driven world, efficient management of information is crucial for the success of any business. This project leverages MySQL, a powerful and widely-used relational database management system, to create a comprehensive database for managing suppliers, products, customers, and orders. By connecting these tables, the project ensures smooth information flow across different parts of the business. This helps all departments access the same, up-to-date data, making operations more efficient. The database consists of four key tables:

➤ TABLES

- 1. SUPPLIER**
- 2. PRODUCT**
- 3. CUSTOMER**
- 4. ORDERS**

2. COMMANDS

CREATE DATABASE

```
CREATE DATABASE INVENTORY;
```

SEE DATABASES

```
SHOW DATABASES;
```

USE DATABASE

```
USE INVENTORY;
```

CREATE TABLE

```
CREATE TABLE SUPPLIER  
(SID CHAR(5) NOT NULL PRIMARY KEY,  
SNAME VARCHAR(25) NOT NULL,  
SADDR VARCHAR(40) ,  
SCITY VARCHAR(20),  
SPHONE CHAR(10),  
SEMAIL VARCHAR(40));
```

DESCRIBE TABLE

DESC SUPPLIER;

	Field	Type	Null	Key	Default	Extra
►	SID	char(5)	NO	PRI	NULL	
	SNAME	varchar(25)	NO		NULL	
	SADDR	varchar(25)	NO		NULL	
	SCITY	varchar(25)	NO		NULL	
	SPHONE	char(10)	NO	UNI	NULL	
	SEMAIL	varchar(45)	NO		NULL	

CREATE TABLE

CREATE TABLE PRODUCT (

PID CHAR(5) NOT NULL PRIMARY KEY,

PDESC VARCHAR(25) NOT NULL,

PRICE DECIMAL(10,2) NOT NULL,

CATEGORY CHAR(2) ,

SID CHAR(5) ,

CONSTRAINT SID FOREIGN KEY(SID) REFERENCES SUPPLIER(SID));

DESC PRODUCT;

	Field	Type	Null	Key	Default	Extra
►	PID	char(5)	NO	PRI	NULL	
	PDESC	varchar(30)	YES		NULL	
	PRICE	decimal(10,2)	NO		NULL	
	CATEGORY	char(2)	YES		NULL	
	SID	char(5)	YES	MUL	NULL	

CREATE TABLE

```
CREATE TABLE CUST (  
  CID CHAR(5) NOT NULL PRIMARY KEY  
  CNAME VARCHAR(25) NOT NULL,  
  CADDR VARCHAR(40) NOT NULL,  
  CCITY VARCHAR(20) NOT NULL,  
  CPHONE CHAR(10) NOT NULL,  
  CEMAIL VARCHAR(25) NOT NULL,  
  CDOB DATE);  
desc cust;
```

	Field	Type	Null	Key	Default	Extra
►	CID	char(5)	NO	PRI	NULL	
	CNAME	varchar(25)	NO		NULL	
	CADDR	varchar(40)	NO		NULL	
	CCITY	varchar(20)	NO		NULL	
	CONTACT	char(10)	YES		NULL	
	CEMAIL	varchar(25)	NO		NULL	
	CDOB	date	YES		NULL	

CREATE TABLE

```
CREATE TABLE ORDERS(  
  OID CHAR(5) NOT NULL,  
  ODATE DATE,  
  CID CHAR(5) ,  
  PID CHAR(5),  
  CONSTRAINT FOREIGN KEY (PID) references PRODUCT(PID),  
  OQTY DECIMAL(10,2));
```

DESC ORDERS;

	Field	Type	Null	Key	Default	Extra
►	OID	char(5)	NO	PRI	NULL	
	ODATE	date	YES		NULL	
	CID	char(5)	YES	MUL	NULL	
	PID	char(5)	YES	MUL	NULL	
	OQTY	decimal(10,2)	YES		NULL	

SHOW TABLES

SHOW TABLES;

	Tables_in_inventory
►	cust
	customer_order
	orders
	product
	product_order
	supplier

INSERT VALUES SUPPLIER

INSERT INTO SUPPLIER (SID, SNAME, SADDR, SCITY, SPHONE, SEMAIL) VALUES

('S0001', 'HP WORLD', 'SECTOR 11 DWARKA', 'DELHI', '9999001001', 'HPWORLD@GMAIL.COM'),

('S0002', 'MEDCARE', 'SC KANPUR, NP ROAD', 'DEHERADHUN', '8887001222',
'MEDCARE@GMAIL.COM'),

('S0003', 'RETAIL SHOPPERS', 'B1/45, JANAKPURI', 'DELHI', '3337001333',
'RETAILSHOP@YAHOO.COM.IN'),

('S0004', 'IT PICKUP', 'DLF, PHASE 5', 'GURGAON', '703331343', 'ITPICKUP@GMAIL.COM'),

('S0005', 'HOME FINISHER', 'C2-431, SUPERTECH', 'NAGPUR', '99003388',
'HOMEFINISH@OUTLOOK.COM'),

('S0006', 'AMPEX ELECTRONICS', 'N13 SHIVAJI
NAGAR', 'MUMBAI', '9876487222', 'AMPEXELECTRONICS@GMAIL.COM'),

('S0007', 'TECHNOCIRCUITRY', 'SC ST-
ROAD', 'HYDERABAD', '8346527233', 'TECHNOCIRCUITRY@GMAIL.COM'),

('S0008', 'BRIGHT CURRENTS', 'SECTOR B/16
DWARKA', 'DELHI', '9734872342', 'BRIGHTCURRENTS@GMAIL.COM'),

('S0009', 'RESISTOR LABS', 'DLF PHASE 5', 'GURGAON', '9678745834', 'RESISTORLABS@GMAIL.COM'),

('S0010', 'CIRCUITSAVVY SOLUTIONS', 'SECTOR 15
DWARKA', 'DELHI', '9367528321', 'CIRCUITSAVVYSOLUTIONS@GMAIL.COM'),

('S0011', 'INNOVOLT INC.', 'C2/16
SUPERELEC', 'MUMBAI', '8536423223', 'INNOVOLTINC.@YAHOO.COM.IN'),

('S0012', 'CONNECTCIRCUIT SOLUTIONS', 'SZ ST-
ROAD', 'HYDERABAD', '8753462352', 'CONNECTCIRCUITSOLUTIONS@YAHOO.COM.IN'),

('S0013', 'DIGICIRCUIT CREATORS', 'N2 NEELAM
NAGAR', 'MUMBAI', '9638752634', 'DIGICIRCUITCREATORS@YAHOO.COM.IN'),

('S0014', 'WIRE WORLD', 'ACR JUBILEE
HILLS', 'HYDERABAD', '8365262434', 'WIREWORLD@YAHOO.COM.IN'),

('S0015', 'SMARTGRID GADGETS', 'C2-444
SUPERTECH', 'NAGPUR', '9638752625', 'SMARTGRIDGADGETS@YAHOO.COM.IN'),

('S0016', 'ELEKTRON EDGE', 'A12
GODREJ', 'MUMBAI', '8352627363', 'ELEKTRONEDGE@OUTLOOK.COM'),

('S0017','ELECTROFLOW','SECTOR A/16
DWARKA','DELHI',9037462728,'ELECTROFLOW@OUTLOOK.COM'),

('S0018','TECHNOCURRENTS','SDL PHASE
1','GURGAON',8008036536,'TECHNOCURRENTS@GMAIL.COM'),

('S0019','DELL TECHNOLOGIES','C2
HAZELNUT','NAGPUR',9346536200,'DELLTECHNOLOGIES@GMAIL.COM'),

('S0020','HOME CENTER','SECTOR 3 PHASE
5','GURGAON',9356427320,'HOMECENTER@GMAIL.COM');

SELECT * FROM SUPPLIER;

	SID	SNAME	SADDR	SCITY	SPHONE	SEMAIL
▶	S0001	HP WORLD	SECTOR 11 DWARKA	DELHI	9999001001	HPWORLD@GMAIL.COM
	S0002	MEDCARE	SC KANPUR, NP ROAD	DEHERADHUN	8887001222	MEDCARE@GMAIL.COM
	S0003	RETAIL SHOPPERS	B1/45, JANAKPURI	DELHI	3337001333	RETAILSHOP@YAHOO.COM.IN
	S0004	IT PICKUP	DLF, PHASE 5	GURGAON	703331343	ITPICKUP@GMAIL.COM
	S0005	HOME FINISHER	C2-431, SUPERTECH	NAGPUR	99003388	HOMEFINISH@OUTLOOK.COM
	S0006	AMPEX ELECTRONICS	N13 SHIVAJI NAGAR	MUMBAI	9876487222	AMPEXELECTRONICS@GMAIL.COM
	S0007	TECHNOCIRCUITRY	SC ST-ROAD	HYDERABAD	8346527233	TECHNOCIRCUITRY@GMAIL.COM
	S0008	BRIGHT CURRENTS	SECTOR B/16 DWARKA	DELHI	9734872342	BRIGHTCURRENTS@GMAIL.COM
	S0009	RESISTOR LABS	DLF PHASE 5	GURGAON	9678745834	RESISTORLABS@GMAIL.COM
	S0010	CIRCUITSAVVY SOLUTIONS	SECTOR 15 DWARKA	DELHI	9367528321	CIRCUITSAVVYSOLUTIONS@GMAIL.COM
	S0011	INNOVOLT INC.	C2/16 SUPERELEC	MUMBAI	8536423223	INNOVOLTINC.@YAHOO.COM.IN
	S0012	CONNECTCIRCUIT SOLUTI...	SZ ST-ROAD	HYDERABAD	8753462352	CONNECTCIRCUITSOLUTIONS@YAHOO...
	S0013	DIGICIRCUIT CREATORS	N2 NEELAM NAGAR	MUMBAI	9638752634	DIGICIRCUITCREATORS@YAHOO.COM.IN
	S0014	WIRE WORLD	ACR JUBILEE HILLS	HYDERABAD	8365262434	WIREWORLD@YAHOO.COM.IN
	S0015	SMARTGRID GADGETS	C2-444 SUPERTECH	NAGPUR	9638752625	SMARTGRIDGADGETS@YAHOO.COM.IN
	S0016	ELEKTRON EDGE	A12 GODREJ	MUMBAI	8352627363	ELEKTRONEDGE@OUTLOOK.COM
	S0017	ELECTROFLOW	SECTOR A/16 DWARKA	DELHI	9037462728	ELECTROFLOW@OUTLOOK.COM
	S0018	TECHNOCURRENTS	SDL PHASE 1	GURGAON	8008036536	TECHNOCURRENTS@GMAIL.COM
	S0019	DELL TECHNOLOGIES	C2 HAZELNUT	NAGPUR	9346536200	DELLTECHNOLOGIES@GMAIL.COM
	S0020	HOME CENTER	SECTOR 3 PHASE 5	GURGAON	9356427320	HOMECENTER.@GMAIL.COM
•	NULL	NULL	NULL	NULL	NULL	NULL

INSERT VALUES PRODUCT

INSERT INTO PRODUCT (PID, PDESC, PRICE, CATEGORY, SID)

VALUES ('P0001', 'HP LAPTOP AND CHARGER', 6000, 'IT', 'S0001'),
('P0002', 'MIXER GRINDER', 10000, 'HA', 'S0005'),
('P0003', 'MOBILE PHONE', 4000, 'IT', 'S0004'),
('P0004', 'STEAMER', 400, 'HC', 'S0002'),
('P0005', 'HANGING LIGHTS', 5000, 'HA', 'S0003'),
('P0006', 'HARD DISK 500GB', 15000, 'IT', 'S0004'),
('P0007', 'CHAIRS AND TABLES', 10500, 'HA', 'S0003'),
('P0008', 'HARD DISK 500GB', 15000, 'HA', 'S0003'),
('P0009', 'HARD DISK 1000GB', 30000, 'HA', 'S0003'),
('P0010', 'CABLE WIRES', 10000, 'HA', 'S0010'),
('P0011', 'DELL LAPTOP AND CHARGER', 25000, 'IT', 'S0019'),
('P0012', 'STUDY & TABLE LAMPS', 15000, 'HA', 'S0020'),
('P0013', 'BLUETOOTH MOUSE', 18000, 'IT', 'S0009'),
('P0014', 'BLACKBERRY MOBILES', 10000, 'IT', 'S0017'),
('P0015', 'BLUETOOTH KEYBOARD', 9000, 'IT', 'S0018'),
('P0016', 'FAIRY LIGHTS', 5000, 'HA', 'S0008'),
('P0017', 'WIFI ROUTER & CABLE', 13000, 'HA', 'S0012'),
('P0018', 'SET TOP BOX', 12000, 'HA', 'S0013'),
('P0019', 'COMPUTERS', 24000, 'IT', 'S0014'),
('P0020', 'LED BULBS TUBELIGHTS', 4500, 'HA', 'S0007'),
('P0021', 'GAS STOVE', 6500, 'HA', 'S0015'),
('P0022', 'BLUETOOTH SPEAKER', 4500, 'IT', 'S0004'),
('P0023', 'WIRELESS HEADPHONES', 3000, 'IT', 'S0004'),
('P0024', 'AIR COOLER', 11500, 'HA', 'S0015'),


```

('P0025','PENDRIVE 132GB',800,'IT','S0004'),
('P0026','WASHING MACHINE',21000,'HA','S0015');

```

```

SELECT * FROM PRODUCT;

```

	PID	PDESC	PRICE	CATEGORY	SID
►	P0001	HP LAPTOP AND CHARGER	6000.00	IT	S0001
	P0002	MIXER GRINDER	10000.00	HA	S0005
	P0003	MOBILE PHONE	4000.00	IT	S0004
	P0004	STEAMER	400.00	HC	S0002
	P0005	HANGING LIGHTS	5000.00	HC	S0003
	P0006	HARD DISK 250GB	15000.00	IT	S0004
	P0007	CHAIRS AND TABLES	10500.00	HA	S0003
	P0008	HARD DISK 500GB	15000.00	HA	S0003
	P0009	HARD DISK 1000GB	30000.00	HA	S0003
	P0010	CABLE WIRES	10000.00	HA	S0010
	P0011	DELL LAPTOP AND CHARG...	25000.00	IT	S0019
	P0012	STUDY & TABLE LAMPS	15000.00	HA	S0020
	P0013	BLUETOOTH MOUSE	18000.00	IT	S0009
	P0014	BLACKBERRY MOBILES	10000.00	IT	S0017
	P0015	BLUETOOTH KEYBOARD	9000.00	IT	S0018
	P0016	FAIRY LIGHTS	5000.00	HC	S0008
	P0017	WIFI ROUTER & CABLE	13000.00	HA	S0012
	P0018	SET TOP BOX	12000.00	HA	S0013
	P0019	COMPUTERS	24000.00	IT	S0014
	P0020	LED BULBS TUBELIGHTS	4500.00	HC	S0007
	P0021	GAS STOVE	6500.00	HC	S0015
	P0022	BLUETOOTH SPEAKER	4500.00	IT	S0004
	P0023	WIRELESS HEADPHONES	3000.00	IT	S0004
	P0024	AIR COOLER	11500.00	HA	S0015
	P0025	PENDRIVE 132GB	800.00	IT	S0004
	P0026	WASHING MACHINE	21000.00	HA	S0015

INSERT VALUES CUST

INSERT INTO CUST (CID,CNAME,CADDR,CCITY,CPHONE,CEMAIL,CDOB) VALUES

('C0001','ABHISHEK SHARMA','7TH CROSS. JANAKPURI','DELHI','9088801001','
ASHARMA@GMAIL.COM','1996-01-10'),

('C0002','RINKU SHARMA','HNO-8205','NOIDA','8098810775','RINKU@GMAIL.COM','1999-04-19'),

('C0003','TEENA MATHEW','DLF PHASE 5','GURGAON','9880601077','TEENA@YAHOO.COM','1990-
06-29'),

('C0004','ROSHAN SINGH','FLAT NO.6A RAJDUR ROAD','DEHERADHUN','8767601123','
ROSHAN@OUTLOOK.COM','1996-08-20'),

('C0005','MONIKA BABI','POCKET 2 SECTOR 11','DELHI','9577640107','
MONIKA@GMAIL.COM','1997-07-20'),

('C0006','SURAJ SHARMA','FLAT NO.10B RAJDUR
ROAD','DEHERADHUN','9873972647','SURAJ@GMAIL.COM','1991-12-04'),

('C0007','AKSHAY SINGH','POCKET 5 SECTOR
10','DELHI','9374872678','AKSHAY@GMAIL.COM','1998-06-02'),

('C0008','SANVI KUMAR','CENTERPOINT B
WING/203','GURGAON','8364824282','SANVI@GMAIL.COM','1994-03-25'),

('C0009','PRANAY PATEL','R57 CITY OF JOY','NAGPUR','8534622734','PRANAY@GMAIL.COM','1980-
06-02'),

('C0010','ANJALI GADA','FLAT NO.107/SL-9 SARDAR
ROAD','MUMBAI','9753657103','ANJALI@GMAIL.COM','1981-03-17'),

('C0011','PRIYANKA SHUKLA','SUNRISE COLONY
140A','HYDERABAD','9365620000','PRIYANKA@OUTLOOK.COM','1990-10-21'),

('C0012','SANJANA GUPTA','POCKET 1 SECTOR
8','DELHI','9375825863','SANJANA@OUTLOOK.COM','1974-04-19'),

('C0013','ATHARVA SHARMA','HAZELNUT
506/B','MUMBAI','9635624600','ATHARVA@OUTLOOK.COM','1977-07-17'),

('C0014','SHRUTI SINGH','POCKET 3 SUNSHINE
ROAD','DELHI','9767246300','SHRUTI@OUTLOOK.COM','1947-07-15'),

('C0015','SHALINI SHETTY','FLAT NO.10B RAJDUR
ROAD','MUMBAI','8632736003','SHALINI@OUTLOOK.COM','1986-11-11'),

('C0016','AARYA SHETTY','HORIZON POINT B
WING/507','HYDERABAD','8263642000','AARYA@GMAIL.COM','1992-08-08'),

('C0017','PRISHA SHINDE','C332 PALACE
JOY','MUMBAI','9065656732','PRISHA@GMAIL.COM','1996-07-22'),

('C0018','ANITA SHARMA','FLAT NO.107/B BP
ROAD','NOIDA','9723600093','ANITA@GMAIL.COM','1993-05-11'),

('C0019','SOHAM SINGH','FLAT NO.10B A WING RAJBAUG
ROAD','NAGPUR','9637200121','SOHAM@YAHOO.COM','1998-07-20'),

('C0020','PRITI KUMAR','FLAT NO.10B RJ
ROAD','DEHERADHUN','9767417200','PRITI@YAHOO.COM','1993-04-23'),

('C0021','SHAILAJA PATEL','SUNSHINE COLONY
A12','DELHI','9236579888','SHAILAJA@YAHOO.COM','1990-05-01'),

('C0022','KARTIKA KUMAR','A123 CITY OF
WONDER','MUMBAI','9653271223','KARTIKA@YAHOO.COM','1987-12-21'),

('C0023','AJAY SHUKLA','LODHA GRP
10/1088','NAGPUR','8763242799','AJAY@YAHOO.COM','1988-01-01'),

('C0024','ISHA GUPTA','AKRUTI ELEGANCE B
WING/203','MUMBAI','8764362342','ISHA@GMAIL.COM','1988-07-01');

SELECT * FROM ORDERS;

	OID	ODATE	CID	PID	OQTY
▶	O0001	2018-07-15	C0005	P0011	1.00
	O0002	2016-12-28	C0002	P0009	4.00
	O0003	2017-01-07	C0001	P0001	2.00
	O0004	2017-02-05	C0014	P0007	7.00
	O0005	2017-02-10	C0013	P0003	2.00
	O0006	2017-03-28	C0008	P0023	3.00
	O0007	2017-03-26	C0009	P0015	2.00
	O0008	2017-04-09	C0010	P0016	1.00
	O0009	2017-08-07	C0020	P0006	2.00
	O0010	2017-09-22	C0011	P0013	1.00
	O0011	2017-10-31	C0016	P0014	3.00
	O0012	2017-11-30	C0006	P0022	2.00
	O0013	2017-11-29	C0004	P0005	2.00
	O0014	2018-01-19	C0007	P0002	1.00
	O0015	2018-03-08	C0002	P0026	2.00
	O0016	2018-04-03	C0001	P0008	3.00
	O0017	2018-04-11	C0002	P0003	6.00
	O0018	2018-06-23	C0002	P0003	1.00
	O0019	2018-08-06	C0019	P0019	4.00
	O0020	2018-03-10	C0017	P0018	2.00
	O0021	2018-03-10	C0024	P0010	2.00
	O0022	2018-03-10	C0015	P0008	1.00
●	NULL	NULL	NULL	NULL	NULL

INSERT VALUES ORDERS

INSERT INTO ORDERS (OID, ODATE, CID, PID, OQTY)

values ('O0001', '2018-07-15', 'C0005', 'P0011',1),

('O0002', '2016-12-28', 'C0002', 'P0009', 4),

('O0003', '2017-01-07', 'C0001', 'P0001', 2),

('O0004', '2017-02-05', 'C0014', 'P0007',7),

('O0005', '2017-02-10', 'C0013', 'P0003',2),

('O0006', '2017-03-28', 'C0008', 'P0023',3),

('O0007', '2017-03-26', 'C0009', 'P0015',2),

('O0008', '2017-04-09', 'C0010', 'P0016',1),

('O0009', '2017-08-07', 'C0020', 'P0006',2),

('O0010', '2017-09-22', 'C0011', 'P0013',1),

('O0011', '2017-10-31', 'C0016', 'P0014',3),

('O0012', '2017-11-30', 'C0006', 'P0022',2),

('O0013', '2017-11-29', 'C0004', 'P0005',2),

('O0014', '2018-01-19', 'C0007', 'P0002',1),

('O0015', '2018-03-08', 'C0002', 'P0026',2),

('O0016', '2018-04-03', 'C0001', 'P0008',3),

('O0017', '2018-04-11', 'C0002', 'P0003',6),

('O0018', '2018-06-23', 'C0002', 'P0003',1),

('O0019', '2018-08-06', 'C0019', 'P0019',4),

('O0020', '2018-03-10', 'C0017', 'P0018',2),

('O0021', '2018-03-10', 'C0024', 'P0010',2),

('O0022', '2018-03-10', 'C0015', 'P0008',1);

3. QUERIES

-- 1. ASSIGN PRIMARY KEY AFTER CREATING THE TABLE

```
ALTER TABLE ORDERS ADD constraint primary key(OID);
```

-- 2. ASSIGN FOREIGN KEY AFTER CREATING THE TABLE

```
ALTER TABLE ORDERS ADD CONSTRAINT FOREIGN KEY (CID) references CUST(CID);
```

-- 3. ALTER THE COLUMN CONSTRAINT AND DATA TYPE AFTER THE TABLE IS MADE

```
ALTER TABLE SUPPLIER MODIFY SADDR varchar(25) NOT NULL;
```

```
ALTER TABLE SUPPLIER MODIFY SCITY varchar(25) NOT NULL;
```

```
ALTER TABLE SUPPLIER MODIFY SPHONE char(10) NOT NULL UNIQUE;
```

```
ALTER TABLE SUPPLIER MODIFY SEMAIL varchar(45) NOT NULL;
```

```
ALTER TABLE PRODUCT ADD CONSTRAINT PRICE CHECK(PRICE >= 0 );
```

```
ALTER TABLE PRODUCT ADD CONSTRAINT CHECK(CATEGORY IN ('IT','HA','HC'));
```

```
ALTER TABLE CUST ADD CONSTRAINT CDOB CHECK(CDOB < '2000-01-01');
```

```
ALTER TABLE ORDERS ADD CONSTRAINT OQTY CHECK(OQTY>=1);
```

-- 4. ADD COLUMN ORDER_DESC IN ORDERS TABLE

```
ALTER TABLE ORDERS ADD ORDER_DESC VARCHAR(50);
```

-- 5. DELETE COLUMN ORDER_DESC IN ORDERS TABLE

```
ALTER TABLE ORDERS drop ORDER_DESC;
```

-- 6. RENAME CUST TABLE TO CUSTOMER

```
RENAME TABLE CUST TO CUSTOMER;
```

-- 7. RENAME CUSTOMER TABLE TO CUST

```
ALTER TABLE CUSTOMER RENAME CUST
```

-- 8. RENAME THE CPHONE COLUMN TO CONTACT

```
ALTER TABLE CUST CHANGE CPHONE CONTACT CHAR(10);
```

-- 9. MODIFY THE PDESC LENGTH TO 30

ALTER TABLE PRODUCT MODIFY PDESC VARCHAR(30);

-- 10. update the category hc to "HA" where price is less than 10000.

UPDATE PRODUCT SET CATEGORY="HC" WHERE CATEGORY="HA" AND PRICE<10000;

	PID	PDESC	PRICE	CATEGORY	SID
▶	P0001	HP LAPTOP AND CHARGER	6000.00	IT	S0001
	P0002	MIXER GRINDER	10000.00	HA	S0005
	P0003	MOBILE PHONE	4000.00	IT	S0004
	P0004	STEAMER	400.00	HC	S0002
	P0005	HANGING LIGHTS	5000.00	HC	S0003
	P0006	HARD DISK 500GB	15000.00	IT	S0004
	P0007	CHAIRS AND TABLES	10500.00	HA	S0003
	P0008	HARD DISK 500GB	15000.00	HA	S0003
	P0009	HARD DISK 1000GB	30000.00	HA	S0003
	P0010	CABLE WIRES	10000.00	HA	S0010
	P0011	DELL LAPTOP AND CHARG...	25000.00	IT	S0019
	P0012	STUDY & TABLE LAMPS	15000.00	HA	S0020
	P0013	BLUETOOTH MOUSE	18000.00	IT	S0009
	P0014	BLACKBERRY MOBILES	10000.00	IT	S0017
	P0015	BLUETOOTH KEYBOARD	9000.00	IT	S0018
	P0016	FAIRY LIGHTS	5000.00	HC	S0008
	P0017	WIFI ROUTER & CABLE	13000.00	HA	S0012
	P0018	SET TOP BOX	12000.00	HA	S0013
	P0019	COMPUTERS	24000.00	IT	S0014
	P0020	LED BULBS TUBELIGHTS	4500.00	HC	S0007
	P0021	GAS STOVE	6500.00	HC	S0015
	P0022	BLUETOOTH SPEAKER	4500.00	IT	S0004
	P0023	WIRELESS HEADPHONES	3000.00	IT	S0004
	P0024	AIR COOLER	11500.00	HA	S0015
	P0025	PENDRIVE 132GB	800.00	IT	S0004
	P0026	WASHING MACHINE	21000.00	HA	S0015
▲	NULL	NULL	NULL	NULL	NULL

-- 11. update PDESC to hard disk 250gb where pid is P0006.

UPDATE PRODUCT SET PDESC="HARD DISK 250GB" WHERE PID="P0006";

-- 12. SHOW ALL RECORDS FROM PRODUCT

SELECT * FROM PRODUCT;

	PID	PDESC	PRICE	CATEGORY	SID
▶	P0001	HP LAPTOP AND CHARGER	6000.00	IT	S0001
	P0002	MIXER GRINDER	10000.00	HA	S0005
	P0003	MOBILE PHONE	4000.00	IT	S0004
	P0004	STEAMER	400.00	HC	S0002
	P0005	HANGING LIGHTS	5000.00	HC	S0003
	P0006	HARD DISK 500GB	15000.00	IT	S0004
	P0007	CHAIRS AND TABLES	10500.00	HA	S0003
	P0008	HARD DISK 500GB	15000.00	HA	S0003
	P0009	HARD DISK 1000GB	30000.00	HA	S0003
	P0010	CABLE WIRES	10000.00	HA	S0010
	P0011	DELL LAPTOP AND CHARG...	25000.00	IT	S0019
	P0012	STUDY & TABLE LAMPS	15000.00	HA	S0020
	P0013	BLUETOOTH MOUSE	18000.00	IT	S0009
	P0014	BLACKBERRY MOBILES	10000.00	IT	S0017
	P0015	BLUETOOTH KEYBOARD	9000.00	IT	S0018
	P0016	FAIRY LIGHTS	5000.00	HC	S0008
	P0017	WIFI ROUTER & CABLE	13000.00	HA	S0012
	P0018	SET TOP BOX	12000.00	HA	S0013
	P0019	COMPUTERS	24000.00	IT	S0014
	P0020	LED BULBS TUBELIGHTS	4500.00	HC	S0007
	P0021	GAS STOVE	6500.00	HC	S0015
	P0022	BLUETOOTH SPEAKER	4500.00	IT	S0004
	P0023	WIRELESS HEADPHONES	3000.00	IT	S0004
	P0024	AIR COOLER	11500.00	HA	S0015
	P0025	PENDRIVE 132GB	800.00	IT	S0004
	P0026	WASHING MACHINE	21000.00	HA	S0015

-- 13.FIRST 5 RECORDS FROM ORDERS

SELECT * FROM ORDERS LIMIT 5;

	OID	ODATE	CID	PID	OQTY
▶	O0001	2018-07-15	C0005	P0011	1.00
	O0002	2016-12-28	C0002	P0009	4.00
	O0003	2017-01-07	C0001	P0001	2.00
	O0004	2017-02-05	C0014	P0007	7.00
	O0005	2017-02-10	C0013	P0003	2.00
*	NULL	NULL	NULL	NULL	NULL

-- 14. LAST 5 RECORDS

SELECT * FROM ORDERS ORDER BY OID DESC LIMIT 5 ;

	OID	ODATE	CID	PID	OQTY
▶	O0022	2018-03-10	C0015	P0008	1.00
	O0021	2018-03-10	C0024	P0010	2.00
	O0020	2018-03-10	C0017	P0018	2.00
	O0019	2018-08-06	C0019	P0019	4.00
	O0018	2018-06-23	C0002	P0003	1.00
*	NULL	NULL	NULL	NULL	NULL

-- 15. show the ORDERID,PRODUCTID AND QUANTITY from the ORDERS table sorted by QUANTITY ORDERED.

select OID,PID,OQTY from ORDERS order by OQTY;

	OID	PID	OQTY
▶	O0001	P0011	1.00
	O0008	P0016	1.00
	O0010	P0013	1.00
	O0014	P0002	1.00
	O0018	P0003	1.00
	O0022	P0008	1.00
	O0003	P0001	2.00
	O0005	P0003	2.00
	O0007	P0015	2.00
	O0009	P0006	2.00
	O0012	P0022	2.00
	O0013	P0005	2.00
	O0015	P0026	2.00
	O0020	P0018	2.00
	O0021	P0010	2.00
	O0006	P0023	3.00
	O0011	P0014	3.00
	O0016	P0008	3.00
	O0002	P0009	4.00
	O0019	P0019	4.00
	O0017	P0003	6.00
	O0004	P0007	7.00
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX

-- 16. Shows ALL details from the supplier table sorted by email.

select * from supplier order by semail;

	SID	SNAME	SADDR	SCITY	SPHONE	SEMAIL
▶	S0006	AMPEX ELECTRONICS	N13 SHIVAJI NAGAR	MUMBAI	9876487222	AMPEXELECTRONICS@GMAIL.COM
	S0008	BRIGHT CURRENTS	SECTOR B/16 DWARKA	DELHI	9734872342	BRIGHTCURRENTS@GMAIL.COM
	S0010	CIRCUITSAVVY SOLUTIONS	SECTOR 15 DWARKA	DELHI	9367528321	CIRCUITSAVVYSOLUTIONS@GMAIL.COM
	S0012	CONNECTCIRCUIT SOLUTIONS	SZ ST - ROAD	HYDERABAD	8753462352	CONNECTCIRCUITSOLUTIONS@YAHOO.COM.IN
	S0019	DELL TECHNOLOGIES	C2 HAZELNUT	NAGPUR	9346536200	DELLTECHNOLOGIES@GMAIL.COM
	S0013	DIGICIRCUIT CREATORS	N2 NEELAM NAGAR	MUMBAI	9638752634	DIGICIRCUITCREATORS@YAHOO.COM.IN
	S0017	ELECTROFLOW	SECTOR A/16 DWARKA	DELHI	9037462728	ELECTROFLOW@OUTLOOK.COM
	S0016	ELEKTRON EDGE	A12 GODREJ	MUMBAI	8352627363	ELEKTRONEDGE@OUTLOOK.COM
	S0020	HOME CENTER	SECTOR 3 PHASE 5	GURGAON	9356427320	HomeCenter@GMAIL.COM
	S0005	HOME FINISHER	C2-431, SUPERTech	NAGPUR	99003388	HomeFinish@OUTLOOK.COM
	S0001	HP WORLD	SECTOR 11 DWARKA	DELHI	9999001001	HPWORLD@GMAIL.COM
	S0011	INNOVOLT INC.	C2/16 SUPERELEC	MUMBAI	8536423223	INNOVOLTINC.@YAHOO.COM.IN
	S0004	IT PICKUP	DLF, PHASE 5	GURGAON	703331343	ITPICKUP@GMAIL.COM
	S0002	MEDCARE	SC KANPUR, NP ROAD	DEHERADHUN	8887001222	MEDCARE@GMAIL.COM
	S0009	RESISTOR LABS	DLF PHASE 5	GURGAON	9678745834	RESISTORLABS@GMAIL.COM
	S0003	RETAIL SHOPPERS	B1/45, JANAKPURI	DELHI	3337001333	RETAILSHOP@YAHOO.COM.IN
	S0015	SMARTGRID GADGETS	C2-444 SUPERTech	NAGPUR	9638752625	SMARTGRIDGADGETS@YAHOO.COM.IN
	S0007	TECHNOCIRCUITRY	SC ST - ROAD	HYDERABAD	8346527233	TECHNOCIRCUITRY@GMAIL.COM
	S0018	TECHNOCURRENTS	SDL PHASE 1	GURGAON	8008036536	TECHNOCURRENTS@GMAIL.COM
	S0014	WIRE WORLD	ACR JUBILEE HILLS	HYDERABAD	8365262434	WIREWORLD@YAHOO.COM.IN
▲	NULL	NULL	NULL	NULL	NULL	NULL

-- 17. Shows all the CustomerID and customer name in lowercase letter and renamed as cid and cust_name from the customers table.

```
SELECT CID as cid,LOWER(CNAME) AS cust_name FROM Cust;
```

	cid	cust_name
►	C0001	abhishek sharma
	C0002	rinku sharma
	C0003	teena mathew
	C0004	roshan singh
	C0005	monika babi
	C0006	suraj sharma
	C0007	akshay singh
	C0008	sanvi kumar
	C0009	pranay patel
	C0010	anjali gada
	C0011	priyanka shukla
	C0012	sanjana gupta
	C0013	atharva sharma
	C0014	shruti singh
	C0015	shalini shetty
	C0016	aarya shetty
	C0017	prisha shinde
	C0018	anita sharma
	C0019	soham singh
	C0020	priiti kumar
	C0021	shailaja patel
	C0022	kartika kumar
	C0023	ajay shukla
	C0024	isha gupta

-- 18. show the name , city , phone number , email from the suppliers table sorted by the City in descending order then by phone number in ascending order.

select sname, scity, sPhone, semail from Supplier order by scity desc , sphone asc;

	sname	scity	sPhone	semail
►	DELL TECHNOLOGIES	NAGPUR	9346536200	DELLTECHNOLOGIES@GMAIL.COM
	SMARTGRID GADGETS	NAGPUR	9638752625	SMARTGRIDGADGETS@YAHOO.COM.IN
	HOME FINISHER	NAGPUR	99003388	HOMEFINISH@OUTLOOK.COM
	ELEKTRON EDGE	MUMBAI	8352627363	ELEKTRONEDGE@OUTLOOK.COM
	INNOVOLT INC.	MUMBAI	8536423223	INNOVOLTINC.,@YAHOO.COM.IN
	DIGICIRCUIT CREATORS	MUMBAI	9638752634	DIGICIRCUITCREATORS@YAHOO.COM.IN
	AMPEX ELECTRONICS	MUMBAI	9876487222	AMPEXELECTRONICS@GMAIL.COM
	TECHNOCIRCUITRY	HYDERABAD	8346527233	TECHNOCIRCUITRY@GMAIL.COM
	WIRE WORLD	HYDERABAD	8365262434	WIREWORLD@YAHOO.COM.IN
	CONNECTCIRCUIT SOLUTIONS	HYDERABAD	8753462352	CONNECTCIRCUITSOLUTIONS@YAHOO.COM.IN
	IT PICKUP	GURGAON	703331343	ITPICKUP@GMAIL.COM
	TECHNOCURRENTS	GURGAON	8008036536	TECHNOCURRENTS@GMAIL.COM
	HOME CENTER	GURGAON	9356427320	HOMECENTER@GMAIL.COM
	RESISTOR LABS	GURGAON	9678745834	RESISTORLABS@GMAIL.COM
	RETAIL SHOPPERS	DELHI	3337001333	RETAILSHOP@YAHOO.COM.IN
	ELECTROFLOW	DELHI	9037462728	ELECTROFLOW@OUTLOOK.COM
	CIRCUITSAVVY SOLUTIONS	DELHI	9367528321	CIRCUITSAVVYSOLUTIONS@GMAIL.COM
	BRIGHT CURRENTS	DELHI	9734872342	BRIGHTCURRENTS@GMAIL.COM
	HP WORLD	DELHI	9999001001	HPWORLD@GMAIL.COM
	MEDCARE	DEHERADHUN	8887001222	MEDCARE@GMAIL.COM

-- 19. show the supplier name and customer name from 'mumbai' only.

```
SELECT DISTINCT(C.CNAME),C.CID,C.CCITY,S.SNAME,S.SID
FROM
CUST AS C
JOIN
ORDERS AS O
ON
O.CID=C.CID
join
PRODUCT AS P
ON
O.PID=P.PID
join
SUPPLIER AS S
ON
P.SID=S.SID
WHERE
C.CCITY="mumbai"
AND
S.SCITY="mumbai";
```

	CNAME	CID	CCITY	SNAME	SID
▶	PRISHA SHINDE	C0017	MUMBAI	DIGICIRCUIT CREATORS	S0013

-- 20. Showing ALL information of customers that are born after 1994 and are from delhi

SELECT * FROM CUST WHERE CDOB>"1994-12-31" AND CCITY="DELHI";

	CID	CNAME	CADDR	CCITY	CONTACT	CEMAIL	CDOB
▶	C0001	ABHISHEK SHARMA	7TH CROSS. JANAKPURI	DELHI	9088801001	ASHARMA@GMAIL.COM	1996-01-10
	C0005	MONIKA BABI	POCKET 2 SECTOR 11	DELHI	9577640107	MONIKA@GMAIL.COM	1997-07-20
	C0007	AKSHAY SINGH	POCKET 5 SECTOR 10	DELHI	9374872678	AKSHAY@GMAIL.COM	1998-06-02
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

-- 21. Shows ALL the data of from suppliers starting with name with A or B.

SELECT * FROM SUPPLIER WHERE SNAME LIKE "A%" OR SNAME LIKE "B%";

	SID	SNAME	SADDR	SCITY	SPHONE	SEMAIL
▶	S0006	AMPEX ELECTRONICS	N13 SHIVAJI NAGAR	MUMBAI	9876487222	AMPEXELECTRONICS@GMAIL.COM
	S0008	BRIGHT CURRENTS	SECTOR B/16 DWARKA	DELHI	9734872342	BRIGHTCURRENTS@GMAIL.COM
-	NULL	NULL	NULL	NULL	NULL	NULL

-- 22. Shows ALL the data of from suppliers HAVING "ele" in there name.

SELECT * FROM SUPPLIER

WHERE

SNAME LIKE '%ELE%';

	SID	SNAME	SADDR	SCITY	SPHONE	SEMAIL
▶	S0006	AMPEX ELECTRONICS	N13 SHIVAJI NAGAR	MUMBAI	9876487222	AMPEXELECTRONICS@GMAIL.COM
	S0016	ELEKTRON EDGE	A12 GODREJ	MUMBAI	8352627363	ELEKTRONEDGE@OUTLOOK.COM
	S0017	ELECTROFLOW	SECTOR A/16 DWARKA	DELHI	9037462728	ELECTROFLOW@OUTLOOK.COM
*	NULL	NULL	NULL	NULL	NULL	NULL

-- 23. Shows ALL the data of from suppliers HAVING second letter is e in there name.

```
SELECT * FROM SUPPLIER
```

```
WHERE
```

```
SNAME LIKE '_e%';
```

	SID	SNAME	SADDR	SCITY	SPHONE	SEMAIL
▶	S0002	MEDCARE	SC KANPUR, NP ROAD	DEHERADHUN	8887001222	MEDCARE@GMAIL.COM
	S0003	RETAIL SHOPPERS	B1/45, JANAKPURI	DELHI	3337001333	RETAILSHOP@YAHOO.COM.IN
	S0007	TECHNOCIRCUITRY	SC ST- ROAD	HYDERABAD	8346527233	TECHNOCIRCUITRY@GMAIL.COM
	S0009	RESISTOR LABS	DLF PHASE 5	GURGAON	9678745834	RESISTORLABS@GMAIL.COM
	S0018	TECHNOCURRENTS	SDL PHASE 1	GURGAON	8008036536	TECHNOCURRENTS@GMAIL.COM
	S0019	DELL TECHNOLOGIES	C2 HAZELNUT	NAGPUR	9346536200	DELLTECHNOLOGIES@GMAIL.COM
*	NULL	NULL	NULL	NULL	NULL	NULL

-- 24. Shows ALL types of hard_disk .

```
SELECT * FROM PRODUCT WHERE PDESC LIKE "HARD_DISK%";
```

	PID	PDESC	PRICE	CATEGORY	SID
▶	P0006	HARD DISK 250GB	15000.00	IT	S0004
	P0008	HARD DISK 500GB	15000.00	HA	S0003
	P0009	HARD DISK 1000GB	30000.00	HA	S0003
*	NULL	NULL	NULL	NULL	NULL

-- 25 . show all the orders details of year 2017 AND 3 rd month .

```
select * from orders where YEAR (ODATE)=2017 and month(odate)=3;
```

	OID	ODATE	CID	PID	OQTY
▶	O0006	2017-03-28	C0008	P0023	3.00
	O0007	2017-03-26	C0009	P0015	2.00
*	NULL	NULL	NULL	NULL	NULL

-- 26.Shows the products grouped by category having price greater than 10000.

select * from product where price >10000 order by category ;

	PID	PDESC	PRICE	CATEGORY	SID
▶	P0007	CHAIRS AND TABLES	10500.00	HA	S0003
	P0008	HARD DISK 500GB	15000.00	HA	S0003
	P0009	HARD DISK 1000GB	30000.00	HA	S0003
	P0012	STUDY & TABLE LAMPS	15000.00	HA	S0020
	P0017	WIFI ROUTER & CABLE	13000.00	HA	S0012
	P0018	SET TOP BOX	12000.00	HA	S0013
	P0024	AIR COOLER	11500.00	HA	S0015
	P0026	WASHING MACHINE	21000.00	HA	S0015
	P0006	HARD DISK 250GB	15000.00	IT	S0004
	P0011	DELL LAPTOP AND CHARGER	25000.00	IT	S0019
	P0013	BLUETOOTH MOUSE	18000.00	IT	S0009
	P0019	COMPUTERS	24000.00	IT	S0014
★	NULL	NULL	NULL	NULL	NULL

-- 27 .NO. OF PRODUCT OF EACH CATEGORY

SELECT COUNT(PID) AS NO_OF_PRODUCT,CATEGORY FROM PRODUCT GROUP BY CATEGORY;

	NO_OF_PRODUCT	CATEGORY
▶	11	IT
	10	HA
	5	HC

-- 28. customers who have age greater than 30

SELECT cname ,(YEAR(now())-YEAR(CDOB)) as age FROM CUST where (YEAR(now())-YEAR(CDOB))>30;

	cname	age
▶	TEENA MATHEW	34
	SURAJ SHARMA	33
	PRANAY PATEL	44
	ANJALI GADA	43
	PRIYANKA SHUKLA	34
	SANJANA GUPTA	50
	ATHARVA SHARMA	47
	SHRUTI SINGH	77
	SHALINI SHETTY	38
	AARYA SHETTY	32
	ANITA SHARMA	31
	PRITI KUMAR	31
	SHAILAJA PATEL	34
	KARTIKA KUMAR	37
	AJAY SHUKLA	36
	ISHA GUPTA	36

-- 29. show the most expensive product and its price

SELECT PDESC,PRICE FROM PRODUCT

WHERE PRICE =(SELECT MAX(PRICE) FROM PRODUCT);

	PDESC	PRICE
▶	HARD DISK 1000GB	30000.00

-- 30. show the cheapest product and its price

```
SELECT PDESC,PRICE FROM PRODUCT
WHERE PRICE =(SELECT Min(PRICE) FROM PRODUCT);
```

	PDESC	PRICE
▶	STEAMER	400.00

-- 31. create view named product order and display the order id ,product desc , orderdate , price , customer name , from which city to deleiver an to which city and the address of the customer

```
CREATE VIEW PRODUCT_ORDER AS
SELECT
OID,
P.PDESC,
O.ODATE,
P.PRICE,
C.CNAME,
CONCAT(S.SCITY, ' ', 'TO', ' ', C.CCITY) AS DELIVER_TO,
C.CADDR AS ADDRESS
FROM
ORDERS AS O
LEFT JOIN
PRODUCT AS P ON P.PID = O.PID
JOIN
SUPPLIER AS S ON S.SID = P.SID
JOIN
CUST AS C ON C.CID = O.CID;
```

SELECT* FROM PRODUCT_ORDER;

	OID	PDESC	ODATE	PRICE	CNAME	DELIVER_TO	ADDRESS
▶	O0001	DELL LAPTOP AND CHARGER	2018-07-15	25000.00	MONIKA BABI	NAGPUR TO DELHI	POCKET 2 SECTOR 11
	O0002	HARD DISK 1000GB	2016-12-28	30000.00	RINKU SHARMA	DELHI TO NOIDA	HNO-8205
	O0003	HP LAPTOP AND CHARGER	2017-01-07	6000.00	ABHISHEK SHARMA	DELHI TO DELHI	7TH CROSS, JANAKPURI
	O0004	CHAIRS AND TABLES	2017-02-05	10500.00	SHRUTI SINGH	DELHI TO DELHI	POCKET 3 SUNSHINE ROAD
	O0005	MOBILE PHONE	2017-02-10	4000.00	ATHARVA SHARMA	GURGAON TO MUMBAI	HAZELNUT 506/8
	O0006	WIRELESS HEADPHONES	2017-03-28	3000.00	SANVI KUMAR	GURGAON TO GURGAON	CENTERPOINT B WING/203
	O0007	BLUETOOTH KEYBOARD	2017-03-26	9000.00	PRANAY PATEL	GURGAON TO NAGPUR	R57 CITY OF JOY
	O0008	FAIRY LIGHTS	2017-04-09	5000.00	ANJALI GADA	DELHI TO MUMBAI	FLAT NO. 107/SL-9 SARDAR ROAD
	O0009	HARD DISK 250GB	2017-08-07	15000.00	PRITI KUMAR	GURGAON TO DEHERADHUN	FLAT NO. 10B RJ ROAD
	O0010	BLUETOOTH MOUSE	2017-09-22	18000.00	PRIYANKA SHUKLA	GURGAON TO HYDERABAD	SUNRISE COLONY 140A
	O0011	BLACKBERRY MOBILES	2017-10-31	10000.00	AARYA SHETTY	DELHI TO HYDERABAD	HORIZON POINT B WING/507
	O0012	BLUETOOTH SPEAKER	2017-11-30	4500.00	SURAJ SHARMA	GURGAON TO DEHERADHUN	FLAT NO. 10B RAJDUR ROAD
	O0013	HANGING LIGHTS	2017-11-29	5000.00	ROSHAN SINGH	DELHI TO DEHERADHUN	FLAT NO. 6A RAJDUR ROAD
	O0014	MIXER GRINDER	2018-01-19	10000.00	AKSHAY SINGH	NAGPUR TO DELHI	POCKET 5 SECTOR 10
	O0015	WASHING MACHINE	2018-03-08	21000.00	RINKU SHARMA	NAGPUR TO NOIDA	HNO-8205
	O0016	HARD DISK 500GB	2018-04-03	15000.00	ABHISHEK SHARMA	DELHI TO DELHI	7TH CROSS, JANAKPURI
	O0017	MOBILE PHONE	2018-04-11	4000.00	RINKU SHARMA	GURGAON TO NOIDA	HNO-8205
	O0018	MOBILE PHONE	2018-06-23	4000.00	RINKU SHARMA	GURGAON TO NOIDA	HNO-8205
	O0019	COMPUTERS	2018-08-06	24000.00	SOHAM SINGH	HYDERABAD TO NAGPUR	FLAT NO. 10B A WING RAJBAUG R...
	O0020	SET TOP BOX	2018-03-10	12000.00	PRISHA SHINDE	MUMBAI TO MUMBAI	C332 PALACE JOY
	O0021	CABLE WIRES	2018-03-10	10000.00	ISHA GUPTA	DELHI TO MUMBAI	AKRUTI ELEGANCE B WING/203
	O0022	HARD DISK 500GB	2018-03-10	15000.00	SHALINI SHETTY	DELHI TO MUMBAI	FLAT NO. 10B RAJDUR ROAD

-- 32. create view named customer order and display the cust id ,cust name , delivery address , order id, product id and order date;

create view customer_order as

select c.cid as cust_id,c.cname as cust_name ,c.caddr delivery_address ,o.oid as order_id,o.pid as product_id,o.odate as order_date

from

orders as o join

cust as c

on

o.cid=c.cid;

select * from customer_order;

	cust_id	cust_name	delivery_address	order_id	product_id	order_date
▶	C0005	MONIKA BABI	POCKET 2 SECTOR 11	O0001	P0011	2018-07-15
	C0002	RINKU SHARMA	HNO-8205	O0002	P0009	2016-12-28
	C0001	ABHISHEK SHARMA	7TH CROSS. JANAKPURI	O0003	P0001	2017-01-07
	C0014	SHRUTI SINGH	POCKET 3 SUNSHINE ROAD	O0004	P0007	2017-02-05
	C0013	ATHARVA SHARMA	HAZELNUT 506/B	O0005	P0003	2017-02-10
	C0008	SANVI KUMAR	CENTERPOINT B WING/203	O0006	P0023	2017-03-28
	C0009	PRANAY PATEL	R57 CITY OF JOY	O0007	P0015	2017-03-26
	C0010	ANJALI GADA	FLAT NO.107/SL-9 SARDAR ROAD	O0008	P0016	2017-04-09
	C0020	PRITI KUMAR	FLAT NO.10B RJ ROAD	O0009	P0006	2017-08-07
	C0011	PRIYANKA SHUKLA	SUNRISE COLONY 140A	O0010	P0013	2017-09-22
	C0016	AARYA SHETTY	HORIZON POINT B WING/507	O0011	P0014	2017-10-31
	C0006	SURAJ SHARMA	FLAT NO.10B RAJDUR ROAD	O0012	P0022	2017-11-30
	C0004	ROSHAN SINGH	FLAT NO.6A RAJDUR ROAD	O0013	P0005	2017-11-29
	C0007	AKSHAY SINGH	POCKET 5 SECTOR 10	O0014	P0002	2018-01-19
	C0002	RINKU SHARMA	HNO-8205	O0015	P0026	2018-03-08
	C0001	ABHISHEK SHARMA	7TH CROSS. JANAKPURI	O0016	P0008	2018-04-03
	C0002	RINKU SHARMA	HNO-8205	O0017	P0003	2018-04-11
	C0002	RINKU SHARMA	HNO-8205	O0018	P0003	2018-06-23
	C0019	SOHAM SINGH	FLAT NO. 10B A WING RAJBAUG R...	O0019	P0019	2018-08-06
	C0017	PRISHA SHINDE	C332 PALACE JOY	O0020	P0018	2018-03-10
	C0024	ISHA GUPTA	AKRUTI ELEGANCE B WING/203	O0021	P0010	2018-03-10
	C0015	SHALINI SHETTY	FLAT NO.10B RAJDUR ROAD	O0022	P0008	2018-03-10

-- 33. show the product and category where product price is less than avg price of product;

select pdesc , category from product where price < (select avg(price) from product) order by category;

	pdesc	category
►	MIXER GRINDER	HA
	CHAIRS AND TABLES	HA
	CABLE WIRES	HA
	STEAMER	HC
	HANGING LIGHTS	HC
	FAIRY LIGHTS	HC
	LED BULBS TUBELIGHTS	HC
	GAS STOVE	HC
	HP LAPTOP AND CHARGER	IT
	MOBILE PHONE	IT
	BLACKBERRY MOBILES	IT
	BLUETOOTH KEYBOARD	IT
	BLUETOOTH SPEAKER	IT
	WIRELESS HEADPHONES	IT
	PENDRIVE 132GB	IT

-- 34. Find avg price AND total price of the order placed

```

SELECT avg((o.oqty)*(p.price)) as average_price, sum((o.oqty)*(p.price)) as total_price
FROM
PRODUCT AS P
JOIN
ORDERS AS O
ON
P.PID=O.PID;

```

	average_price	total_price
►	29431.81818182	647500.0000

-- 35. Round off the avg price AND total price of the order placed

```
SELECT ROUND(avg((o.oqty)*(p.price))) as average_price, ROUND(sum((o.oqty)*(p.price))) as  
total_price
```

```
FROM
```

```
PRODUCT AS P
```

```
JOIN
```

```
ORDERS AS O
```

```
ON
```

```
P.PID=O.PID;
```

	average_price	total_price
▶	29432	647500

-- 36. fetch the last 2 character of customer id from the cust table and
rename as ShortId.

```
SELECT SUBSTRING(cid, 4, 5) AS ShortId FROM Cust;
```

```
SELECT right(Cid, 2) AS ShortId FROM Cust;
```

	ShortId
▶	01
	02
	03
	04
	05
	06
	07
	08
	09
	10
	11
	12
	13
	14
	15
	16
	17
	18
	19
	20
	21
	22
	23
	24

-- 37. MOST POPULAR PRODUCT

SELECT

P.PDESC AS MOST_POPULAR_PRODUCT

FROM

PRODUCT AS P

JOIN

ORDERS AS O ON O.PID = P.PID

GROUP BY P.PID

ORDER BY SUM(O.OQTY) DESC

LIMIT 1

;

	MOST_POPULAR_PRODUCT
▶	MOBILE PHONE

-- 38. LEAST ORDERED

```
SELECT
P.PDESC AS MOST_POPULAR_PRODUCT
FROM
PRODUCT AS P
JOIN
ORDERS AS O ON O.PID = P.PID
GROUP BY P.PID
ORDER BY SUM(O.OQTY)
LIMIT 1
;
```

	MOST_POPULAR_PRODUCT
▶	DELL LAPTOP AND CHARGER

-- 39.PRODUCT THAT WHERE NEVER ORDERED

```
SELECT DISTINCT(PDESC),PID
FROM
PRODUCT WHERE PID NOT IN (
SELECT DISTINCT P.PID
FROM
PRODUCT AS P
JOIN
ORDERS AS O
ON
P.PID=O.PID);
```


	PDESC	PID
▶	STEAMER	P0004
	STUDY & TABLE LAMPS	P0012
	WIFI ROUTER & CABLE	P0017
	LED BULBS TUBELIGHTS	P0020
	GAS STOVE	P0021
	AIR COOLER	P0024
	PENDRIVE 132GB	P0025

-- 40. SHOW DATA OF THE PRODUCT AND SUPPLIER WHERE NAME OF SUPPLIER AND PRODUCT BOTH START WITH "C".

```

SELECT S.SID,SNAME, P.PID ,P.PDESC FROM
SUPPLIER AS S
JOIN
PRODUCT AS P
ON
P.SID=S.SID
WHERE
S.SNAME LIKE "C%" AND PDESC LIKE "C%"
;

```

	SID	SNAME	PID	PDESC
▶	S0010	CIRCUITSAVVY SOLUTIONS	P0010	CABLE WIRES

--.41 Show the product id and order quantity and make case statement where quantity greater than 2, equal to 1 or not ordered.

```
select PID ,oqty,
case
when oqty>=2 then "the order quantity is greater than or equal to 2"
when oqty=1 then "the order quantity is equal TO 1"
else "THE PRODUCT WAS NOT ORDERED"
end as result
from orders;
```

	PID	oqty	result
►	P0011	1.00	the order quantity is equal TO 1
	P0009	4.00	the order quantity is greater than or equal to 2
	P0001	2.00	the order quantity is greater than or equal to 2
	P0007	7.00	the order quantity is greater than or equal to 2
	P0003	2.00	the order quantity is greater than or equal to 2
	P0023	3.00	the order quantity is greater than or equal to 2
	P0015	2.00	the order quantity is greater than or equal to 2
	P0016	1.00	the order quantity is equal TO 1
	P0006	2.00	the order quantity is greater than or equal to 2
	P0013	1.00	the order quantity is equal TO 1
	P0014	3.00	the order quantity is greater than or equal to 2
	P0022	2.00	the order quantity is greater than or equal to 2
	P0005	2.00	the order quantity is greater than or equal to 2
	P0002	1.00	the order quantity is equal TO 1
	P0026	2.00	the order quantity is greater than or equal to 2
	P0008	3.00	the order quantity is greater than or equal to 2
	P0003	6.00	the order quantity is greater than or equal to 2
	P0003	1.00	the order quantity is equal TO 1
	P0019	4.00	the order quantity is greater than or equal to 2
	P0018	2.00	the order quantity is greater than or equal to 2
	P0010	2.00	the order quantity is greater than or equal to 2
	P0008	1.00	the order quantity is equal TO 1

