

5. DATABASE IMPLEMENTATION

5.1 CREATE SCHEMA AND INSERT THE DATA

1. USER_INFO

```
CREATE TABLE USER_INFO
(
    USER_ID INT AUTO_INCREMENT PRIMARY KEY,
    FIRST_NAME VARCHAR(10) NOT NULL,
    LAST_NAME VARCHAR(10) NOT NULL,
    EMAIL_ID VARCHAR(30) NOT NULL,
    DOB DATE,
    PHN_NO1 DECIMAL(10, 0) NOT NULL,
    PHN_NO2 DECIMAL(10, 0),
    ADDRESS VARCHAR(100),
    PINCODE DECIMAL(6, 0) NOT NULL,
    CITY VARCHAR(30) NOT NULL,
    STATE VARCHAR(30) NOT NULL
);
```

```
DESC USER_INFO;
```

Field	Type	Null	Key	Default	Extra
USER_ID	int(11)	NO	PRI	NULL	auto_increment
FIRST_NAME	varchar(10)	NO		NULL	
LAST_NAME	varchar(10)	NO		NULL	
EMAIL_ID	varchar(30)	NO		NULL	
DOB	date	YES		NULL	
PHN_NO1	decimal(10,0)	NO		NULL	
PHN_NO2	decimal(10,0)	YES		NULL	
ADDRESS	varchar(100)	NO		NULL	
PINCODE	decimal(6,0)	NO		NULL	
CITY	varchar(30)	NO		NULL	
STATE	varchar(30)	NO		NULL	

```
INSERT INTO `user_info` (`USER_ID`, `FIRST_NAME`, `LAST_NAME`, `EMAIL_ID`, `DOB`, `PHN_NO1`,
`PHN_NO2`, `ADDRESS`, `PINCODE`, `CITY`, `STATE`) VALUES
('1', 'Mahesh', 'Vegada', 'mahesh@gmail.com', '1999-10-15', '9638650152', '9638650153',
'S/1,Kailash society', '362265', 'Gir-Somnath', 'Gujarat');
```

```

('2', 'Shyam', 'Makwana', 'shyam@gmail.com', '2000-05-27', '9638300760', NULL, 'S/2,Amrut
society', '320008', 'Ahmedabad', 'Gujarat'),
('3', 'Mihir', 'Gediya', 'mihir@gmail.com', NULL, '9998300760', '9998300761', 'H/9,Geeta nagar',
'335009', 'Surat', 'Gujarat'),
('4', 'Pragti', 'Barad', 'pragti@gmail.com', '2000-10-30', '6598300760', '6598300761', 'H/16,M S marg',
'300018', 'Baroda', 'Gujarat'),
('5', 'Dhruvil', 'Chodvadiya', 'dhruvil@gmail.com', '1999-01-07', '9756300760', NULL, 'S/4,M G road',
'335009', 'Surat', 'Gujarat'),
('6', 'Pranay', 'Makwana', 'pranay@gmail.com', '1999-05-27', '9638312340', '9638312341',
'S/22,Blue Apartment', '320008', 'Ahmedabad', 'Gujarat'),
('7', 'Akash', 'Mistry', 'akash@gmail.com', NULL, '8228300760', '8228300761', 'A/1,Lal nagar',
'335009', 'Surat', 'Gujarat'),
('8', 'Ronak', 'Agnani', 'ronak@gmail.com', '2000-01-21', '7383300760', '7383300761', 'B/12,Blue
Apartment', '300018', 'Baroda', 'Gujarat'),
('9', 'Twinkle', 'Arora', 'twinkle@gmail.com', '1999-09-13', '6126300760', NULL, 'S/6,M G road',
'335009', 'Surat', 'Gujarat'),
('10', 'Kavish', 'Khatr', 'khatr@gmail.com', '1998-05-29', '9878312340', '9878312341', 'S/1,S G
Highway', '320008', 'Ahmedabad', 'Gujarat'),
('11', 'Dhruv', 'Kumar', 'dhruv@gmail.com', NULL, '9787300760', NULL, 'S/45,J G road', '335009',
'Surat', 'Gujarat'),
('12', 'Raj', 'Makwana', 'raj@gmail.com', '1999-05-27', '9638312340', NULL, 'A/2,A Apartment',
'320008', 'Ahmedabad', 'Gujarat'),
('13', 'Ajay', 'Mistry', 'ajay@gmail.com', '2001-01-01', '6928300760', '6928300761', NULL,
'335009', 'Surat', 'Gujarat'),
('14', 'Ronak', 'Patel', 'ronakp@gmail.com', '2000-11-30', '7383478760', '7383478761', 'H/12,Red
Apartment', '300018', 'Baroda', 'Gujarat'),
('15', 'Jinal', 'Parmar', 'jinal@gmail.com', NULL, '9996300760', NULL, NULL, '335009', 'Surat',
'Gujarat');

```

```
SELECT * FROM USER_INFO;
```

USER_ID	FIRST_NAME	LAST_NAME	EMAIL_ID	DOB	PHN_NO1	PHN_NO2	ADDRESS	PINCODE	CITY	STATE
1	Mahesh	Vegada	mahesh@gmail.com	1999-10-15	9638650152	9638650153	S/1,Kailash society	362265	Gir-Somnath	Gujarat
2	Shyam	Makwana	shyam@gmail.com	2000-05-27	9638300760	NULL	S/2,Amrut society	320008	Ahmedabad	Gujarat
3	Mihir	Gediya	mihir@gmail.com	NULL	9998300760	9998300761	H/9,Geeta nagar	335009	Surat	Gujarat
4	Pragti	Barad	pragti@gmail.com	2000-10-30	6598300760	6598300761	H/16,M S marg	300018	Baroda	Gujarat
5	Dhruvil	Chodvadiya	dhruvil@gmail.com	1999-01-07	9756300760	NULL	S/4,M G road	335009	Surat	Gujarat
6	Pranay	Makwana	pranay@gmail.com	1999-05-27	9638312340	9638312341	S/22,Blue Apartment	320008	Ahmedabad	Gujarat
7	Akash	Mistry	akash@gmail.com	NULL	8228300760	8228300761	A/1,Lal nagar	335009	Surat	Gujarat
8	Ronak	Agnani	ronak@gmail.com	2000-01-21	7383300760	7383300761	B/12,Blue Apartment	300018	Baroda	Gujarat
9	Twinkle	Arora	twinkle@gmail.com	1999-09-13	6126300760	NULL	S/6,M G road	335009	Surat	Gujarat
10	Kavish	Khatr	khatr@gmail.com	1998-05-29	9878312340	9878312341	S/1,S G Highway	320008	Ahmedabad	Gujarat
11	Dhruv	Kumar	dhruv@gmail.com	NULL	9787300760	NULL	S/45,J G road	335009	Surat	Gujarat
12	Raj	Makwana	raj@gmail.com	1999-05-27	9638312340	NULL	A/2,A Apartment	320008	Ahmedabad	Gujarat
13	Ajay	Mistry	ajay@gmail.com	2001-01-01	6928300760	6928300761	C/3,Navratna nagar	335009	Surat	Gujarat
14	Ronak	Patel	ronakp@gmail.com	2000-11-30	7383478760	7383478761	H/12,Red Apartment	300018	Baroda	Gujarat
15	Jinal	Parmar	jinal@gmail.com	NULL	9996300760	NULL	B/15,Dharmabhum	335009	Surat	Gujarat

2. SUPPLIER

```
CREATE TABLE SUPPLIER
```

```
(
    SUP_ID INT AUTO_INCREMENT PRIMARY KEY,
    USER_ID INT NOT NULL,
    COMP_NAME VARCHAR(50) NOT NULL,
    FOREIGN KEY (USER_ID) REFERENCES USER_INFO(USER_ID) ON DELETE CASCADE ON
    UPDATE CASCADE
);
```

```
DESC SUPPLIER;
```

Field	Type	Null	Key	Default	Extra
SUP_ID	int(11)	NO	PRI	NULL	auto_increment
USER_ID	int(11)	NO	MUL	NULL	
COMP_NAME	varchar(50)	NO		NULL	

```
INSERT INTO `supplier` (`SUP_ID`, `USER_ID`, `COMP_NAME`) VALUES
```

```
('1', '1', 'Mahadev Enterprise'),
```

```
('2', '2', 'Flowkem Pvt Ltd'),
```

```
('3', '3', 'Mihir & sons'),
```

```
('4', '4', 'Pragti Sales'),
```

```
('5', '5', 'DC Brothers');
```

```
SELECT * FROM SUPPLIER;
```

SUP_ID	USER_ID	COMP_NAME
1	1	Mahadev Enterprise
2	2	Flowkem Pvt Ltd
3	3	Mihir & sons
4	4	Pragti Sales
5	5	DC Brothers

3. CUSTOMER

```
CREATE TABLE CUSTOMER
```

```
(
    CUST_ID INT AUTO_INCREMENT PRIMARY KEY,
    USER_ID INT NOT NULL,
    FOREIGN KEY (USER_ID) REFERENCES USER_INFO(USER_ID) ON DELETE CASCADE ON
    UPDATE CASCADE
);
```

```
DESC CUSTOMER;
```

Field	Type	Null	Key	Default	Extra
CUST_ID	int(11)	NO	PRI	NULL	auto_increment
USER_ID	int(11)	NO	MUL	NULL	

```
INSERT INTO `customer` (`CUST_ID`, `USER_ID`) VALUES
```

```
('1', '6'),
('2', '7'),
('3', '8'),
('4', '9'),
('5', '10'),
('6', '11'),
('7', '12'),
('8', '13'),
('9', '14'),
('10', '15');
```

```
SELECT * FROM CUSTOMER;
```

CUST_ID	USER_ID
1	6
2	7
3	8
4	9
5	10
6	11
7	12
8	13
9	14
10	15

4. CATEGORY

```
CREATE TABLE CATEGORY
(
    CAT_ID INT AUTO_INCREMENT PRIMARY KEY,
    CAT_NAME VARCHAR(15) NOT NULL
);
```

```
DESC CATEGORY;
```

Field	Type	Null	Key	Default	Extra
CAT_ID	int(11)	NO	PRI	NULL	auto_increment
CAT_NAME	varchar(15)	NO		NULL	

```
INSERT INTO `category` (`CAT_ID`, `CAT_NAME`) VALUES
('1', 'Computer'),
('2', 'Earphone'),
('3', 'Mobile Phone'),
('4', 'Accessories');
```

```
SELECT * FROM CATEGORY;
```

CAT_ID	CAT_NAME
1	Computer
2	Earphone
3	Mobile Phone
4	Accessories

5. SUBCATEGORY

```
CREATE TABLE SUBCATEGORY
(
    SCAT_ID INT AUTO_INCREMENT PRIMARY KEY,
    CAT_ID INT NOT NULL,
    SCAT_NAME VARCHAR(30) NOT NULL,
    FOREIGN KEY (CAT_ID) REFERENCES CATEGORY(CAT_ID)
    ON DELETE CASCADE ON UPDATE CASCADE
);
```

DESC SUBCATEGORY;

Field	Type	Null	Key	Default	Extra
SCAT_ID	int(11)	NO	PRI	NULL	auto_increment
CAT_ID	int(11)	NO	MUL	NULL	
SCAT_NAME	varchar(30)	NO		NULL	

INSERT INTO `subcategory` (`SCAT_ID`, `CAT_ID`, `SCAT_NAME`) VALUES

(1, 1, 'Laptops'),
 (2, 1, 'Desktop'),
 (3, 1, 'Mini Laptop'),
 (4, 2, 'Boat'),
 (5, 2, 'JBL'),
 (6, 2, 'Sony'),
 (7, 3, 'Oppo'),
 (8, 3, 'Vivo'),
 (9, 3, 'Samsung'),
 (10, 3, 'Apple'),
 (11, 4, 'Memory Card'),
 (12, 4, 'Power Bank');

SELECT * FROM SUBCATEGORY;

SCAT_ID	CAT_ID	SCAT_NAME
1	1	Laptops
2	1	Desktop
3	1	Mini Laptop
4	2	Boat
5	2	JBL
6	2	Sony
7	3	Oppo
8	3	Vivo
9	3	Samsung
10	3	Apple
11	4	Memory Card
12	4	Power Bank

6. PRODUCT

CREATE TABLE PRODUCT

```
(
    PROD_ID INT AUTO_INCREMENT PRIMARY KEY,
    SUP_ID INT NOT NULL,
    SCAT_ID INT NOT NULL,
    PROD_NAME VARCHAR(30) NOT NULL,
    QUANTITY DECIMAL(6,0) NOT NULL,
    PRICE DECIMAL(10, 2) NOT NULL,
    DISCOUNT DECIMAL(4,2),
    FOREIGN KEY (SUP_ID) REFERENCES SUPPLIER(SUP_ID)
    ON DELETE CASCADE ON UPDATE CASCADE,
    FOREIGN KEY (SCAT_ID) REFERENCES SUBCATEGORY(SCAT_ID)
    ON DELETE CASCADE ON UPDATE CASCADE
);
```

DESC PRODUCT;

Field	Type	Null	Key	Default	Extra
PROD_ID	int(11)	NO	PRI	NULL	auto_increment
SUP_ID	int(11)	NO	MUL	NULL	
SCAT_ID	int(11)	NO	MUL	NULL	
PROD_NAME	varchar(30)	NO		NULL	
QUANTITY	decimal(6,0)	NO		NULL	
PRICE	decimal(10,2)	NO		NULL	
DISCOUNT	decimal(4,2)	YES		NULL	

INSERT INTO `product` (`PROD_ID`, `SUP_ID`, `SCAT_ID`, `PROD_NAME`, `QUANTITY`, `PRICE`, `DISCOUNT`) VALUES

```
('1', '1', '1', 'Dell G3', '5', '67000', '0'),
('2', '1', '1', 'Dell G5', '3', '80000', '10'),
('3', '1', '1', 'Dell G7', '6', '111000', '12'),
('4', '4', '1', 'MacBook Air', '6', '60000', '0'),
('5', '4', '1', 'MacBook Pro', '9', '90000', '15'),
('6', '1', '1', 'HP Pavillion', '10', '62000', '0'),
('7', '1', '2', 'Acer Home', '4', '40000', '5'),
('8', '4', '2', 'Lenovo PC', '2', '45000', '0'),
('9', '4', '3', 'HP Mini', '3', '50000', '10'),
('10', '2', '4', 'Nirvana', '20', '1500', '10'),
('11', '3', '4', 'Nirvana', '30', '1499', '0'),
('12', '2', '5', 'Airbuds', '8', '2000', '10'),
('13', '2', '6', 'Basshead', '30', '2500', '10'),
('14', '3', '6', 'Earbuds', '10', '3000', '20'),
```

```
('15', '1', '7', 'Reno', '9', '30000', '5'),
```

```
('16', '4', '7', 'A23', '3', '20000', '0'),
```

```
('17', '2', '7', 'Narzo', '21', '23999', '20'),
```

```
('18', '2', '8', 'V5', '12', '19999', '0'),
```

```
('19', '2', '8', 'V9', '4', '26000', '25'),
```

```
('20', '4', '9', 'Note 9', '12', '60000', '12'),
```

```
('21', '1', '10', 'iphone XE', '2', '88200', '12'),
```

```
('22', '2', '10', 'iphone XR', '1', '87000', '5'),
```

```
('23', '1', '10', 'iphone XR', '5', '86500', '0'),
```

```
('24', '5', '11', 'Sandisk-64GB', '32', '649', '0'),
```

```
('25', '1', '11', 'Samsung 128GB', '12', '1130', '5'),
```

```
('26', '1', '12', 'MI 20000mah', '5', '1699', '10'),
```

```
('27', '5', '12', 'Syska 20000mah', '2', '1800', '5'),
```

```
('28', '5', '12', 'Ambrame 1000mah', '6', '799', '11');
```

```
SELECT * FROM PRODUCT;
```

PROD_ID	SUP_ID	SCAT_ID	PROD_NAME	QUANTITY	PRICE	DISCOUNT
1	1	1	Dell G3	5	67000.00	0.00
2	1	1	Dell G5	3	80000.00	10.00
3	1	1	Dell G7	6	111000.00	12.00
4	4	1	MacBook Air	6	60000.00	0.00
5	4	1	MacBook Pro	9	90000.00	15.00
6	1	1	HP Pavillion	10	62000.00	0.00
7	1	2	Acer Home	4	40000.00	5.00
8	4	2	Lenovo PC	2	45000.00	0.00
9	4	3	HP Mini	3	50000.00	10.00
10	2	4	Nirvana	20	1500.00	10.00
11	3	4	Nirvana	30	1499.00	0.00
12	2	5	Airbuds	8	2000.00	10.00
13	2	6	Basshead	30	2500.00	10.00
14	3	6	Earbuds	10	3000.00	20.00
15	1	7	Reno	9	30000.00	5.00
16	4	7	A23	3	20000.00	0.00
17	2	7	Narzo	21	23999.00	20.00
18	2	8	V5	12	19999.00	0.00
19	2	8	V9	4	26000.00	25.00
20	4	9	Note 9	12	60000.00	12.00
21	1	10	iphone XE	2	88200.00	12.00
22	2	10	iphone XR	1	87000.00	5.00
23	1	10	iphone XR	5	86500.00	0.00
24	5	11	Sandisk-64GB	32	649.00	0.00
25	1	11	Samsung 128GB	12	1130.00	5.00
26	1	12	MI 20000mah	5	1699.00	10.00
27	5	12	Syska 20000mah	2	1800.00	5.00
28	5	12	Ambrame 1000mah	6	799.00	11.00

7. CART

```
CREATE TABLE CART
(
    CART_ID INT AUTO_INCREMENT PRIMARY KEY,
    TTL_AMT DECIMAL(11,2) NOT NULL,
    TTL_QTY DECIMAL(3,0) NOT NULL
);
```

```
DESC CART;
```

Field	Type	Null	Key	Default	Extra
CART_ID	int(11)	NO	PRI	NULL	auto_increment
TTL_AMT	decimal(11,2)	NO		NULL	
TTL_QTY	decimal(3,0)	NO		NULL	

```
INSERT INTO `cart` (`CART_ID`, `TTL_AMT`, `TTL_QTY`) VALUES
('1', '193000', '5'),
('2', '180000', '4'),
('3', '67000', '1'),
('4', '90000', '3'),
('5', '1699', '1');
```

```
SELECT * FROM CART;
```

CART_ID	TTL_AMT	TTL_QTY
1	193000.00	5
2	180000.00	4
3	67000.00	1
4	90000.00	3
5	1699.00	1

8. CARTPRODUCT

```
CREATE TABLE CARTPRODUCT
(
    CART_ID INT,
    PROD_ID INT,
    QTY DECIMAL(2,0),
    FOREIGN KEY (CART_ID) REFERENCES CART(CART_ID)
```

```

ON DELETE CASCADE ON UPDATE CASCADE,
FOREIGN KEY (PROD_ID) REFERENCES PRODUCT(PROD_ID)
ON DELETE CASCADE ON UPDATE CASCADE,
PRIMARY KEY(CART_ID,PROD_ID)
);

```

```
DESC CARTPRODUCT;
```

Field	Type	Null	Key	Default	Extra
CART_ID	int(11)	NO	PRI	NULL	
PROD_ID	int(11)	NO	PRI	NULL	
QTY	decimal(2,0)	NO		NULL	

```
INSERT INTO `cartproduct` (`CART_ID`, `PROD_ID`, `QTY`) VALUES
```

```
('1', '2', '1'),
```

```
('1', '9', '1'),
```

```
('1', '14', '1'),
```

```
('1', '15', '2'),
```

```
('2', '22', '1'),
```

```
('2', '10', '2'),
```

```
('2', '5', '1'),
```

```
('3', '1', '1'),
```

```
('4', '9', '1'),
```

```
('4', '16', '2'),
```

```
('5', '26', '1');
```

```
SELECT * FROM CARTPRODUCT;
```

CART_ID	PROD_ID	QTY
1	2	1
1	9	1
1	14	1
1	15	2
2	5	1
2	10	2
2	22	1
3	1	1
4	9	1
4	16	2
5	26	1

9. ORDERS

```
CREATE TABLE ORDERS
(
  ORD_ID INT AUTO_INCREMENT PRIMARY KEY,
  CUST_ID INT NOT NULL,
  CART_ID INT NOT NULL,
  ORD_DATE DATE NOT NULL,
  DEL_DATE DATE NOT NULL,
  FOREIGN KEY (CUST_ID) REFERENCES CUSTOMER(CUST_ID)
  ON DELETE CASCADE ON UPDATE CASCADE,
  FOREIGN KEY (CART_ID) REFERENCES CART(CART_ID)
  ON DELETE CASCADE ON UPDATE CASCADE
);

DESC ORDERS;
```

Field	Type	Null	Key	Default	Extra
ORD_ID	int(11)	NO	PRI	NULL	auto_increment
CUST_ID	int(11)	NO	MUL	NULL	
CART_ID	int(11)	NO	MUL	NULL	
ORD_DATE	date	NO		NULL	
DEL_DATE	date	NO		NULL	

```
INSERT INTO `orders` (`ORD_ID`, `CUST_ID`, `CART_ID`, `ORD_DATE`, `DEL_DATE`) VALUES
('1', '2', '1', '2020-10-01', '2020-10-10'),
('2', '9', '2', '2020-10-04', '2020-10-13'),
('3', '5', '3', '2020-09-02', '2020-09-11'),
('4', '6', '4', '2020-10-06', '2020-10-15'),
('5', '3', '5', '2020-09-01', '2020-09-10');
```

```
SELECT * FROM ORDER;
```

ORD_ID	CUST_ID	CART_ID	ORD_DATE	DEL_DATE
1	2	1	2020-10-01	2020-10-10
2	9	2	2020-10-04	2020-10-13
3	5	3	2020-09-02	2020-09-11
4	6	4	2020-10-06	2020-10-15
5	3	5	2020-09-01	2020-09-10

10. PAYMENT

CREATE TABLE PAYMENT

```
(
    PAY_ID INT AUTO_INCREMENT,
    ORD_ID INT,
    PAY_TYPE VARCHAR(15) NOT NULL,
    TTL_AMT DECIMAL(11, 2) NOT NULL,
    FOREIGN KEY (ORD_ID) REFERENCES ORDERS(ORD_ID)
    ON DELETE CASCADE ON UPDATE CASCADE,
    PRIMARY KEY(PAY_ID,ORD_ID)
);
```

DESC PAYMENT;

Field	Type	Null	Key	Default	Extra
PAY_ID	int(11)	NO	PRI	NULL	auto_increment
ORD_ID	int(11)	NO	PRI	NULL	
PAY_TYPE	varchar(15)	NO		NULL	
TTL_AMT	decimal(11,2)	NO		NULL	

```
INSERT INTO `payment` (`PAY_ID`, `ORD_ID`, `PAY_TYPE`, `TTL_AMT`) VALUES
('1', '1', 'UPI', '193000'),
('2', '2', 'Net Banking', '180000'),
('3', '3', 'Credit Card', '67000'),
('4', '4', 'Debit Card', '90000'),
('5', '5', 'COD', '1699');
```

SELECT * FROM PAYMENT;

PAY_ID	ORD_ID	PAY_TYPE	TTL_AMT
1	1	UPI	193000.00
2	2	Net Banking	180000.00
3	3	Credit Card	67000.00
4	4	Debit Card	90000.00
5	5	COD	1699.00

11. SHIPPER

```
CREATE TABLE SHIPPER
```

```
(
    SHIP_ID INT AUTO_INCREMENT,
    ORD_ID INT,
    PHN_NO DECIMAL(10, 0) NOT NULL,
    S_NAME VARCHAR(20) NOT NULL,
    FOREIGN KEY (ORD_ID) REFERENCES ORDERS(ORD_ID)
    ON DELETE CASCADE ON UPDATE CASCADE,
    PRIMARY KEY(SHIP_ID,ORD_ID)
);
```

```
DESC SHIPPER;
```

Field	Type	Null	Key	Default	Extra
SHIP_ID	int(11)	NO	PRI	NULL	auto_increment
ORD_ID	int(11)	NO	PRI	NULL	
PHN_NO	decimal(10,0)	NO		NULL	
S_NAME	varchar(20)	NO		NULL	

```
INSERT INTO `shipper` (`SHIP_ID`, `ORD_ID`, `PHN_NO`, `S_NAME`) VALUES
('1', '1', '9876549876', 'Dixit Patel'),
('2', '2', '9873219873', 'Ajay Verma'),
('3', '3', '9877899878', 'Harsh Patel'),
('4', '4', '9876543210', 'Pritesh Vaja'),
('5', '5', '7894561230', 'Mitesh Parmar');
```

```
SELECT * FROM SHIPPER;
```

SHIP_ID	ORD_ID	PHN_NO	S_NAME
1	1	9876549876	Dixit Patel
2	2	9873219873	Ajay Verma
3	3	9877899878	Harsh Patel
4	4	9876543210	Pritesh Vaja
5	5	7894561230	Mitesh Parmar

12. REVIEW

```
CREATE TABLE REVIEW(
    PROD_ID INT NOT NULL,
    CUST_ID INT NOT NULL,
    REV_DESC VARCHAR(700) NOT NULL,
    FOREIGN KEY (CUST_ID) REFERENCES CUSTOMER(CUST_ID)
    ON DELETE CASCADE ON UPDATE CASCADE,
    FOREIGN KEY (PROD_ID) REFERENCES PRODUCT(PROD_ID)
    ON DELETE CASCADE ON UPDATE CASCADE,
    PRIMARY KEY(CUST_ID , PROD_ID)
);
```

```
DESC REVIEW;
```

Field	Type	Null	Key	Default	Extra
PROD_ID	int(11)	NO	PRI	NULL	
CUST_ID	int(11)	NO	PRI	NULL	
REV_DESC	varchar(700)	NO		NULL	

```
INSERT INTO `review` (`PROD_ID`, `CUST_ID`, `REV_DESC`) VALUES
('2', '2', 'Good Laptop. Value for money.'),
('15', '2', 'Fabulous Phone'),
('9', '2', 'Portable, good battery'),
('5', '9', 'Great Speed'),
('10', '9', 'Loud Voice, extra basss'),
('20', '9', 'good battery, camera'),
('9', '6', 'Worst Product');
```

```
SELECT * FROM REVIEW;
```

PROD_ID	CUST_ID	REV_DESC
2	2	Good Laptop. Value for money.
9	2	Portable, good battery
15	2	Fabulous Phone
9	6	Worst Product
5	9	Great Speed
10	9	Loud Voice, extra basss
20	9	good battery, camera

5.2 QUERIES

1. FIND THE PRODUCT NAME, QUANTITY, PRICE AND DISCOUNT WHICH ARE SUPPLIED BY “Flowkem Pvt Ltd”.

```
SELECT P.PROD_NAME,P.QUANTITY,P.PRICE,P.DISCOUNT FROM PRODUCT P
WHERE P.SUP_ID IN
( SELECT S.SUP_ID FROM SUPPLIER S WHERE S.COMP_NAME='Flowkem Pvt Ltd' )
ORDER BY P.PROD_NAME;
```

PROD_NAME ▲ 1	QUANTITY	PRICE	DISCOUNT
Airbuds	8	2000.00	10.00
Basshead	30	2500.00	10.00
iphone XR	1	87000.00	5.00
Narzo	21	23999.00	20.00
Nirvana	20	1500.00	10.00
V5	12	19999.00	0.00
V9	4	26000.00	25.00

2. FIND THE CUSTOMER NAME & CITY WHOSE ORDER IS SHIPPED BY Ship_Id=4.

```
SELECT U.FIRST_NAME,U.LAST_NAME,U.CITY
FROM USER_INFO U
INNER JOIN CUSTOMER C USING(USER_ID)
INNER JOIN ORDERS O USING(CUST_ID)
INNER JOIN SHIPPER S USING(ORD_ID)
WHERE S.SHIP_ID = 4;
```

FIRST_NAME	LAST_NAME	CITY
Dhruv	Kumar	Surat

3. FIND HOW MANY PRODUCTS BELONGS TO EACH CATEGORY.

```
SELECT C.CAT_ID,C.CAT_NAME,COUNT(P.PROD_ID) AS TOTAL_PRODUCTS
FROM CATEGORY C , SUBCATEGORY S , PRODUCT P
WHERE S.SCAT_ID=P.SCAT_ID AND C.CAT_ID=S.CAT_ID
GROUP BY CAT_ID
ORDER BY TOTAL_PRODUCTS DESC;
```

CAT_ID	CAT_NAME	TOTAL_PRODUCTS
3	Mobile Phone	9
1	Computer	9
2	Earphone	5
4	Accessories	5

4. FIND THE SHIPPER NAME AND PHONE NO. OF CUSTOMER WHOSE DOB IS "NULL" IN ORDER.

```
SELECT S.S_NAME AS SHIPPER_NAME , S.PHN_NO
FROM USER_INFO U , CUSTOMER C , ORDERS O , SHIPPER S
WHERE U.DOB IS NULL AND U.USER_ID = C.USER_ID
AND C.CUST_ID = O.CUST_ID AND S.ORD_ID = O.ORD_ID;
```

SHIPPER_NAME	PHN_NO
Dixit Patel	9876549876
Pritesh Vaja	9876543210

5. FIND THE CUSTOMER NAME, PAYMENT TYPE, SHIPPER NAME AND ORDER DATE WHO HAS PLACED ORDER FROM '2020-10-01' TO '2020-10-05'.

```
SELECT U.FIRST_NAME AS CUST_NAME, P.PAY_TYPE, S.S_NAME AS SHIPPER_NAME, O.ORD_DATE
FROM USER_INFO U, CUSTOMER C, ORDERS O, PAYMENT P, SHIPPER S
WHERE ORD_DATE BETWEEN '2020-10-01' AND '2020-10-05'
AND U.USER_ID = C.USER_ID AND C.CUST_ID = O.CUST_ID
AND O.ORD_ID = P.ORD_ID AND S.ORD_ID = O.ORD_ID;
```

CUST_NAME	PAY_TYPE	SHIPPER_NAME	ORD_DATE
Akash	UPI	Dixit Patel	2020-10-01
Ronak	Net Banking	Ajay Verma	2020-10-04

6. FIND THE COMPANY NAME AND THE NUMBER OF PRODUCTS SUPPLIED BY EACH SUPPLIER AND NUMBER OF PRODUCTS > 5.

```
SELECT S.COMP_NAME , COUNT(P.PROD_ID) AS TOTAL_PRODUCTS
FROM SUPPLIER S INNER JOIN PRODUCT P USING (SUP_ID)
GROUP BY S.COMP_NAME
HAVING TOTAL_PRODUCTS > 5
ORDER BY TOTAL_PRODUCTS;
```


COMP_NAME	TOTAL_PRODUCTS ▲ 1
Pragti Sales	6
Flowkem Pvt Ltd	7
Mahadev Enterprise	10

7. FIND THE CUSTOMER NAME , PHONE_NO AND MAIL_ID WHO HAS ORDERED “LAPTOPS”.

```
SELECT U.FIRST_NAME,U.LAST_NAME,U.PHN_NO1,U.EMAIL_ID FROM
USER_INFO U WHERE U.USER_ID IN
(SELECT C.USER_ID FROM CUSTOMER C WHERE C.CUST_ID IN
(SELECT O.CUST_ID FROM ORDERS O WHERE O.CART_ID IN
(SELECT CP.CART_ID FROM CARTPRODUCT CP WHERE CP.PROD_ID IN
(SELECT P.PROD_ID FROM PRODUCT P WHERE P.SCAT_ID IN
(SELECT SC.SCAT_ID FROM SUBCATEGORY SC WHERE SC.SCAT_NAME = 'Laptops' ))));
```

FIRST_NAME	LAST_NAME	PHN_NO1	EMAIL_ID
Akash	Mistry	8228300760	akash@gmail.com
Kavish	Khatri	9878312340	khatri@gmail.com
Ronak	Patel	7383478760	ronakp@gmail.com

8. FIND THE CUSTOMER NAME, ADDRESS, PINOCDE AND CITY WHOSE ORDER IS SHIPPED BY SHIPPER NAME LIKE ‘H%’.

```
SELECT U.FIRST_NAME,U.LAST_NAME,U.ADDRESS,U.PINCODE,U.CITY
FROM USER_INFO U, CUSTOMER C, ORDERS O, SHIPPER S
WHERE U.USER_ID=C.USER_ID
AND C.CUST_ID=O.CUST_ID
AND S.ORD_ID=O.ORD_ID
AND S.S_NAME LIKE 'H%';
```

FIRST_NAME	LAST_NAME	ADDRESS	PINCODE	CITY
Kavish	Khatri	S/1,S G Highway	320008	Ahmedabad

9. FIND THE CUSTOMER NAME , PAYMENT TYPE AND TOTAL AMOUNT WHOSE TOTAL AMOUNT IS GREATER THAN OR EQUAL TO AVERAGE AMOUNT OF ALL ORDERS.

```
SELECT U.FIRST_NAME,U.LAST_NAME,P.PAY_TYPE,P.TTL_AMT
FROM USER_INFO U, CUSTOMER C, ORDERS O, PAYMENT P
WHERE U.USER_ID = C.USER_ID
AND C.CUST_ID = O.CUST_ID
AND O.ORD_ID = P.ORD_ID
AND O.ORD_ID IN
(SELECT ORD_ID FROM PAYMENT WHERE TTL_AMT >= (SELECT AVG(TTL_AMT) FROM PAYMENT));
```

FIRST_NAME	LAST_NAME	PAY_TYPE	TTL_AMT
Akash	Mistry	UPI	193000.00
Ronak	Patel	Net Banking	180000.00

10. FIND THE PAYMENT DETAILS WHOSE TOTAL AMOUNT IS EQUAL TO MAX AMOUNT OF ALL ORDERS.

```
SELECT * FROM PAYMENT WHERE TTL_AMT = (SELECT MAX(TTL_AMT) FROM PAYMENT);
```

PAY_ID	ORD_ID	PAY_TYPE	TTL_AMT
1	1	UPI	193000.00

11. FIND ALL REVIEW DESCRIPTION WITH CUSTOMER NAME AND PRODUCT NAME.

```
SELECT U.FIRST_NAME,P.PROD_NAME,R.REV_DESC AS REVIEW
FROM USER_INFO U,CUSTOMER C,PRODUCT P,REVIEW R
WHERE U.USER_ID=C.USER_ID
AND C.CUST_ID=R.CUST_ID
AND R.PROD_ID=P.PROD_ID;
```

FIRST_NAME	PROD_NAME	REVIEW
Akash	Dell G5	Good Laptop. Value for money.
Akash	HP Mini	Portable, good battery
Akash	Reno	Fabulous Phone
Dhruv	HP Mini	Worst Product
Ronak	MacBook Pro	Great Speed
Ronak	Nirvana	Loud Voice, extra basss
Ronak	Note 9	good battery, camera