A

Project Report

on

"Digital Payment"

DEVELOPED BY:

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CERTIFICATE

This is to certify that the project entitled " DIGITAL PAYMENT**"** is abonafied report of the work carried out by

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of Department of Information Technology, semester V, under the guidance and supervision for the subject Database Management System. They were involved in Project training during academic year 2018-2019.

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Date:

Acknowledgement

On completion of project we would like to express our sincere thanks to all those who have guide, advised, inspired and supported during our project work.

Every work that one completes successfully stands on the constants encouragement, good will and support of the people around. We, hereby, avail this opportunity to express our heartfelt gratitude to a number of people who extended their valuable time, full support and cooperation in developing this project.

We are hearty thankful to the qualified staff of the centre and especially to our lab faculty Prof. Sunil K. Vithlani. We believe that his computer expertise and valuable guidance have made it possible to present such nice project report.
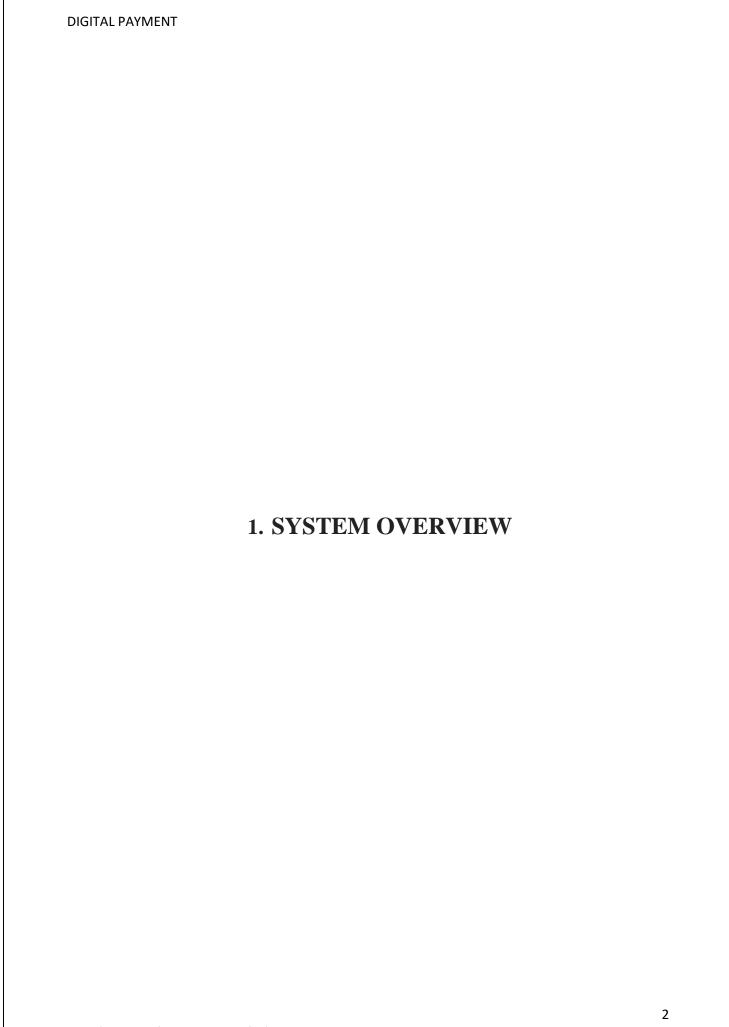
Thanking you.

Yours Sincerely,

KOLADIYA MONIKA SURESHBHAI (IT - 53)

KALOLA SUNNY JITENDRABHAI (IT - 48)

Index

1. SYSTEM OVERVIEW

1.1 Current System

This is a project based on PL/SQL language. In this, one can easily manage the Payments/Transactions which are done by his/her self for various catogories like movie ticket, mobile recharge, gas/electricity bills etc. and also it contains many procedures to manage database. All updates done on data items is reflected on database. It also contains triggers and cursors for managing the payments.
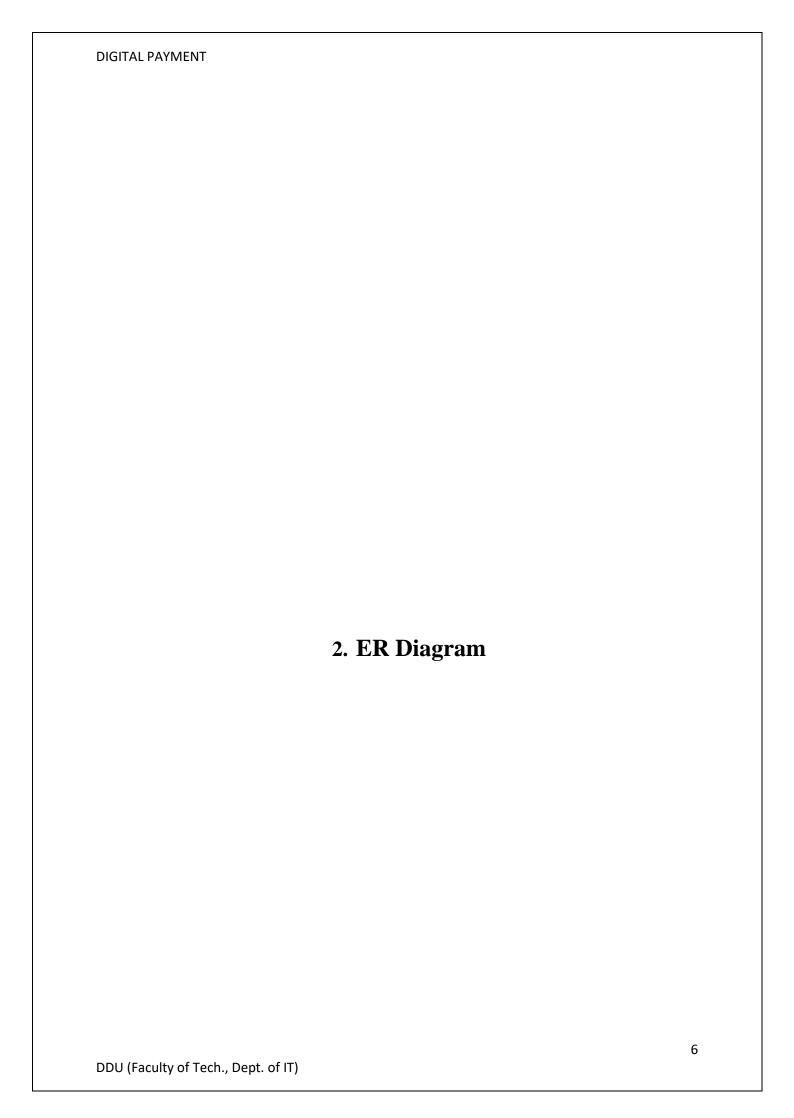
1.2 Objectives of the Proposed System

1. Automate and facilitate process of managing payments.
2. Getting the all transactions made by User.
3. Various offers and Promo-codes can be applicable.
4. Users's Transaction informations.

1.3 Advantages of the proposed system

Some important features and benefits of Digital Payment system are:

- Unique and fully branded design.
- Very important design for success i.e. Responsive design
- Proper management of transactions for each user.
- Allowing user to scope out information of his/her payment easily.
- One can also apply promo-code for his/her payment based on type of payment .
- Proper management of all various payments.
- One can easily maintain record of his /her Transactions/Payments.

2. ER Diagram

DIGITAL PAYMENT

2.1 Entities

- Admin
- Customer
- Personal_info
- Dth_recharge
- Book_movies
- Mobile_recharge
- Electricity_bills
- Gass_bills
- Offers
- Wallet
- Quetions
- Feedback
- Payment
- Transaction

2.2 Relationships

- Customer has one to one relationship with personal info (Relationship name : c_info)
- Payment has one to one relationship with Transaction (Relationship name : has)
- Customer has one to many relationship with book_movies,mobile recharge, etc. (Relationship name : pays_for)
- Customer has one to one relationship with wallet (Relationship name : has)
- DTH recharge has one to one relationship with payment (Relationship name : pays)
- Admin has one to many relationship with offers(Relationship name: manage)
- Customer has one to many relationship with feedback(Relationship name:gives)

3. DATA DICTIONARY

DIGITAL PAYMENT

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ADMIN	AID	VARCHAR2	5	-	-	1	-	-	-
	ANAME	VARCHAR2	20	-	-	-	-	-	-
	APASS	VARCHAR2	20	-	-	-	-	-	-
	AEMAIL	VARCHAR2	40	-	-	-	-	-	-
									1 - 4

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CUSTOMER	CID	VARCHAR2	5	-	-	1	-	-	-
	CNAME	VARCHAR2	20	-	-	-	-	-	-
	CPHONE	NUMBER	-	10	0	-	✔	-	-
	PASSWORD	VARCHAR2	20	-	-	-	-	-	-
	EMAIL	VARCHAR2	30	-	-	-	-	-	-
									1 - 5

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PERSONAL_INFO	CITY	VARCHAR2	20	-	-	-	-	-	-
	PINCODE	VARCHAR2	20	-	-	-	-	-	-
	STREET	VARCHAR2	20	-	-	-	-	-	-
	Q_ANS	VARCHAR2	50	-	-	-	-	-	-
	CID	VARCHAR2	5	-	-	-	-	-	-
									1 - 5

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
BOOK_MOVIES	MID	VARCHAR2	5	-	-	1	-	-	-
	LOCATION	VARCHAR2	30	-	-	-	-	-	-
	LANGUAGE	VARCHAR2	20	-	-	-	-	-	-
	CINEMAHALL	VARCHAR2	30	-	-	-	-	-	-
	AMOUNT	NUMBER	-	20	0	-	✔	-	-
	PTYPE	VARCHAR2	20	-	-	-	✔	'movie'	-
	CID	VARCHAR2	5	-	-	-	-	-	-
									1 - 7

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
DTH_RECHARGE	DID	VARCHAR2	5	-	-	1	-	-	-
	OPERATOR	VARCHAR2	20	-	-	-	-	-	-
	AMOUNT	NUMBER	-	20	0	-	-	-	-
	PTYPE	VARCHAR2	20	-	-	-	✔	'dth'	-
	CID	VARCHAR2	5	-	-	-	-	-	-
									1 - 5

DIGITAL PAYMENT

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
MOBILE_RECHARGE	RID	VARCHAR2	5	-	-	1	-	-	-
	M_NO	NUMBER	-	20	0	-	-	-	-
	TYPE	VARCHAR2	20	-	-	-	-	-	-
	OPERATOR	VARCHAR2	20	-	-	-	-	-	-
	PTYPE	VARCHAR2	20	-	-	-	✓	'mobile'	-
	AMOUNT	NUMBER	-	20	0	-	-	-	-
	CID	VARCHAR2	5	-	-	-	-	-	-
									1 - 7

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ELECTRICITY_BILLS	EID	VARCHAR2	5	-	-	1	-	-	-
	TYPE	VARCHAR2	20	-	-	-	-	-	-
	AMOUNT	NUMBER	-	20	0	-	-	-	-
	PTYPE	VARCHAR2	20	-	-	-	✓	'electricity'	-
	CID	VARCHAR2	5	-	-	-	-	-	-
									1 - 5

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
GAS_BILLS	GID	VARCHAR2	5	-	-	1	-	-	-
	GAS_PROVIDER	VARCHAR2	20	-	-	-	-	-	-
	CONSUMER_NO	NUMBER	-	20	0	-	-	-	-
	AMOUNT	NUMBER	-	20	0	-	-	-	-
	PTYPE	VARCHAR2	20	-	-	-	✓	'gas'	-
	CID	VARCHAR2	5	-	-	-	-	-	-
									1 - 6

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
OFFERS	PROMOCODE	VARCHAR2	20	-	-	1	-	-	-
	PTYPE	VARCHAR2	20	-	-	-	-	-	-
	DESCRIPTION	VARCHAR2	50	-	-	-	-	-	-
									1 - 3

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
WALLET	WID	VARCHAR2	5	-	-	1	-	-	-
	CID	VARCHAR2	5	-	-	-	-	-	-
	BALANCE	NUMBER	-	20	0	-	-	-	-
									1 - 3

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
FEEDBACK	CPHONE	NUMBER	-	20	0	-	-	-	-
	MESSAGE	VARCHAR2	50	-	-	-	-	-	-
									1 - 2

DIGITAL PAYMENT

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PAYMENT	PID	VARCHAR2	5	-	-	1	-	-	-
	PTYPE	VARCHAR2	20	-	-	-	✓	-	-
	PROMOCODE	VARCHAR2	20	-	-	-	✓	-	-
	CID	VARCHAR2	5	-	-	-	-	-	-
	AMOUNT	NUMBER	-	20	0	-	-	-	-
									1 - 5

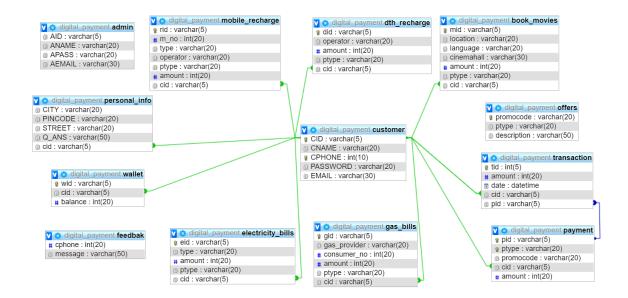| Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
TRANSACTION	TID	NUMBER	-	5	0	1	-	-	-
	AMOUNT	NUMBER	-	20	0	-	-	-	-
	T_DATE	DATE	7	-	-	-	-	-	-
	CID	VARCHAR2	5	-	-	-	-	-	-
	PID	VARCHAR2	5	-	-	-	-	-	-
									1 - 5

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
QUETION	Q_NO	VARCHAR2	5	-	-	1	-	-	-
	Q_NAME	VARCHAR2	50	-	-	-	-	-	-
									1 - 2

14

4. SCHEMA DIAGRAM

DIGITAL PAYMENT

digital_payment admin
- AID : varchar(5)
- ANAME : varchar(20)
- APASS : varchar(20)
- AEMAIL : varchar(30)

digital_payment mobile_recharge
- rid : varchar(5)
- m_no : int(20)
- type : varchar(20)
- operator : varchar(20)
- ptype : varchar(20)
- amount : int(20)
- cid : varchar(5)

digital_payment dth_recharge
- did : varchar(5)
- operator : varchar(20)
- amount : int(20)
- ptype : varchar(20)
- cid : varchar(5)

digital_payment book_movies
- mid : varchar(5)
- location : varchar(20)
- language : varchar(20)
- cinemahall : varchar(30)
- amount : int(20)
- ptype : varchar(20)
- cid : varchar(5)

digital_payment personal_info
- CITY : varchar(20)
- PINCODE : varchar(20)
- STREET : varchar(20)
- Q_ANS : varchar(50)
- cid : varchar(5)

digital_payment customer
- CID : varchar(5)
- CNAME : varchar(20)
- CPHONE : int(10)
- PASSWORD : varchar(20)
- EMAIL : varchar(30)

digital_payment offers
- promocode : varchar(20)
- ptype : varchar(20)
- description : varchar(50)

digital_payment transaction
- tid : int(5)
- amount : int(20)
- date : datetime
- cid : varchar(5)
- pid : varchar(5)

digital_payment wallet
- wid : varchar(5)
- cid : varchar(5)
- balance : int(20)

digital_payment feedbak
- cphone : int(20)
- message : varchar(50)

digital_payment electricity_bills
- eid : varchar(5)
- type : varchar(20)
- amount : int(20)
- ptype : varchar(20)
- cid : varchar(5)

digital_payment gas_bills
- gid : varchar(5)
- gas_provider : varchar(20)
- consumer_no : int(20)
- amount : int(20)
- ptype : varchar(20)
- cid : varchar(5)

digital_payment payment
- pid : varchar(5)
- ptype : varchar(20)
- promocode : varchar(20)
- cid : varchar(5)
- amount : int(20)

DDU (Faculty of Tech., Dept. of IT)

5. DATABASEIMPLEMENTATION

5.1 CREATE TABLES:

1. Admin

CREATE TABLE admin(

  aid varchar(5) PRIMARY KEY,

  aname varchar(20) NOT NUll,

  apass varchar(20) NOT Null,

  aemail varchar(40) NOT Null

);

2. Customer

CREATE TABLE customer(

  cid varchar(5),

  cname varchar(20) NOT NULL,

  cphone number(10),

  password varchar(20) NOT NULL,

  email varchar(30) NOT NULL,

  PRIMARY KEY(cid,cphone)

);

3. Personal_info

CREATE TABLE personal_info(

  city varchar(20) NOT NULL,

  pincode varchar(20) NOT NULL,

  street varchar(20) NOT NULL,

  q_ans varchar(50) NOT NULL,

  cid varchar(5) NOT NULL

);

4. dth_recharge

CREATE TABLE dth_recharge(

   did varchar(5) PRIMARY KEY,

   operator varchar(20) NOT NULL,

   amount number(20) NOT NULL,

   ptype varchar(20) DEFAULT 'dth',

   cid varchar(5) NOT NULL

);

5.book_movies

CREATE TABLE book_movies(

  mid varchar(5) PRIMARY KEY,

  location varchar(5) NOT NULL,

  language varchar(20) NOT NULL,

  cinemahall varchar(20) NOT NULL,

  amount number(20),

  ptype varchar(20) DEFAULT 'movie',

  cid varchar(5) NOT NULL

);

6.mobile_recharge

CREATE TABLE mobile_recharge(

   rid varchar(5) PRIMARY KEY,

   m_no number(20) NOT NULL,

   type varchar(20) NOT NULL,

   operator varchar(20) NOT NULL,

   ptype varchar(20) DEFAULT 'mobile',

   amount number(20) NOT NULL,

   cid varchar(5) NOT NULL

);

7.electricity_bills

```
CREATE TABLE electricity_bills(

    eid varchar(5) PRIMARY KEY,

    type varchar(20) NOT NULL,

    amount number(20) NOT NULL,

    ptype varchar(20) DEFAULT 'electricity',

    cid varchar(5) NOT NULL

);
```

8.gass_bills

```
CREATE TABLE gas_bills(

    gid varchar(5) PRIMARY KEY,

    gas_provider varchar(20) NOT NULL,

    consumer_no number(20) NOT NULL,

    amount number(20) NOT NULL,

    ptype varchar(20) DEFAULT 'gas',

    cid varchar(5) NOT NULL

);
```

9.offers

```
CREATE TABLE offers(

    promocode varchar(20) PRIMARY KEY,

    ptype  varchar(20) NOT NULL,

    description varchar(50) NOT NULL

);
```

10.quetions

CREATE TABLE wallet(

   wid varchar(5) PRIMARY KEY,

   cid varchar(5) NOT NULL,

   balance number(20) NOT NULL

);

11.feedback

CREATE TABLE feedback(

      cphone number(20) NOT NULL,

   message varchar(50) NOT NULL

);

12.payment

CREATE TABLE payment(

   pid varchar(5),

   ptype varchar(20),

   promocode varchar(20),

   cid varchar(5) NOT NULL,

   amount number(20) NOT NULL,

   PRIMARY KEY(pid,ptype)

);

13.transaction

CREATE TABLE transaction(

   tid number(5) PRIMARY KEY,

   amount number(20) NOT NULL,

   t_date date NOT NULL,

   cid varchar(5) NOT NULL,

   pid varchar(5) NOT NULL

);

14.wallet

CREATE TABLE wallet(

   wid varchar(5) PRIMARY KEY,

   cid varchar(5) NOT NULL,

   balance number(20) NOT NULL

);

5.2 INSERT DATA:

1.admin

INSERT ALL

 INTO admin (AID, ANAME, APASS, AEMAIL) VALUES ('A001', 'monika', 'monika', 'monika@gmail.com')

 INTO admin (AID, ANAME, APASS, AEMAIL) VALUES ('A002', 'sunny', 'xyz', 'xyz@gmail.com')

select * from dual;

- SELECT * FROM admin

AID	ANAME	APASS	AEMAIL
A001	monika	monika	monika@gmail.com
A002	sunny	xyz	xyz@gmail.com

2.customer

INSERT ALL

 INTO customer (CID , CNAME , CPHONE , PASSWORD , EMAIL) VALUES ('C001', 'monika', '1234567890', 'monika', 'monika@gmail.com')

 INTO customer (CID , CNAME , CPHONE , PASSWORD , EMAIL) VALUES ('C002', 'bhavna', '234567890', 'bhavna', 'bhavna@gmail.com')

 INTO customer (CID , CNAME , CPHONE , PASSWORD , EMAIL) VALUES ('C003', 'apexa', '34567890', 'apexa', 'apexa@gmail.com')

 INTO customer (CID , CNAME , CPHONE , PASSWORD , EMAIL) VALUES ('C004', 'mina', '4567890', 'mina', 'mina@gmail.com')

 INTO customer (CID , CNAME , CPHONE , PASSWORD , EMAIL) VALUES ('C005', 'riya', '5678901', 'riya', 'riya@gmail.com')

 INTO customer (CID , CNAME , CPHONE , PASSWORD , EMAIL) VALUES ('C006', 'jiiya', '678901', 'jiya', 'jiya@gmail.com')

 INTO customer (CID , CNAME , CPHONE , PASSWORD , EMAIL) VALUES ('C007', 'apexa', '34567890', 'apexa', 'apexa@gmail.com')

 INTO customer (CID , CNAME , CPHONE , PASSWORD , EMAIL) VALUES ('C008', 'bhavna', '234567890', 'bhavna', 'bhavna@gmail.com')

 INTO customer (CID , CNAME , CPHONE , PASSWORD , EMAIL) VALUES ('C009', 'priya', '890123', 'priya', 'priya@gmail.com')

 INTO customer (CID , CNAME , CPHONE , PASSWORD , EMAIL) VALUES ('C010', 'siya', '910203', 'siya', 'siya@gmail.com')

select * from dual;

- SELECT * FROM customer

CID	CNAME	CPHONE	PASSWORD	EMAIL
C001	monika	1234567890	monika	monika@gmail.com
C002	bhavna	234567890	bhavna	bhavna@gmail.com
C003	apexa	34567890	apexa	apexa@gmail.com
C004	mina	4567890	mina	mina@gmail.com
C005	riya	5678901	riya	riya@gmail.com
C006	jiiya	678901	jiya	jiya@gmail.com
C007	apexa	34567890	apexa	apexa@gmail.com
C008	bhavna	234567890	bhavna	bhavna@gmail.com
C009	priya	890123	priya	priya@gmail.com
C010	siya	910203	siya	siya@gmail.com

3.personal_info

INSERT ALL

 INTO personal_info (CITY , PINCODE , STREET , Q_ANS , cid) VALUES ('surat', '395006', 'christian', 'red', 'C001')

 INTO personal_info (CITY , PINCODE , STREET , Q_ANS , cid) VALUES ('nadiad', '387001', 'station', 'pink', 'C002')

 INTO personal_info (CITY , PINCODE , STREET , Q_ANS , cid) VALUES ('baroda', '300018', 'vishwamaitri', 'black', 'C003')

 INTO personal_info (CITY , PINCODE , STREET , Q_ANS , cid) VALUES ('surat', '395006', 'dumas', 'black', 'C004')

 INTO personal_info (CITY , PINCODE , STREET , Q_ANS , cid) VALUES ('vapi', '395006', 'shrinagar', 'white', 'C005')

 INTO personal_info (CITY , PINCODE , STREET , Q_ANS , cid) VALUES ('valsad', '395046', 'kalpna', 'white', 'C006')

 INTO personal_info (CITY , PINCODE , STREET , Q_ANS , cid) VALUES ('vapi', '398003', 'bhagwati', 'red', 'C007')

 INTO personal_info (CITY , PINCODE , STREET , Q_ANS , cid) VALUES ('surat', '398007', 'station', 'red', 'C008')

 INTO personal_info (CITY , PINCODE , STREET , Q_ANS , cid) VALUES ('baroda', '395001', 'civil', 'bluu', 'C009')

 INTO personal_info (CITY , PINCODE , STREET , Q_ANS , cid) VALUES ('nadiad', '387001', 'college', 'white', 'C010')

select * from dual;

- SELECT * FROM personal_info

CITY	PINCODE	STREET	Q_ANS	CID
surat	395006	christian	red	C001
nadiad	387001	station	pink	C002
baroda	300018	vishwamaitri	black	C003
surat	395006	dumas	black	C004
vapi	395006	shrinagar	white	C005
valsad	395046	kalpna	white	C006
vapi	398003	bhagwati	red	C007
surat	398007	station	red	C008
baroda	395001	civil	bluu	C009
nadiad	387001	college	white	C010

4.dth_recharge

INSERT ALL

INTO dth_recharge (did , operator , amount , ptype , cid) VALUES ('D01', 'airtel', '250', 'dth', 'C001')

INTO dth_recharge (did , operator , amount , ptype , cid) VALUES ('D02', 'dishTV', '1000', 'dth', 'C005')

INTO dth_recharge (did , operator , amount , ptype , cid) VALUES ('D03', 'reliance', '350', 'dth', 'C004')

INTO dth_recharge (did , operator , amount , ptype , cid) VALUES ('D04', 'airtel', '450', 'dth', 'C006')

DIGITAL PAYMENT

INTO dth_recharge (did , operator , amount , ptype , cid) VALUES ('D05', 'airtel', '490', 'dth', 'C008')

INTO dth_recharge (did , operator , amount , ptype , cid) VALUES ('D06', 'videocon', '399', 'dth', 'C005')

INTO dth_recharge (did , operator , amount , ptype , cid) VALUES ('D07', 'TATAsky', '100', 'dth', 'C008')

INTO dth_recharge (did , operator , amount , ptype , cid) VALUES ('D08', 'airtel', '180', 'dth', 'C008')

INTO dth_recharge (did , operator , amount , ptype , cid) VALUES ('D09', 'videocon', '290', 'dth', 'C005')

INTO dth_recharge (did , operator , amount , ptype , cid) VALUES ('D10', 'TATAsky', '300', 'dth', 'C007')

select * from dual ;

- SELECT * FROM dth_recharge

DID	OPERATOR	AMOUNT	PTYPE	CID
D01	airtel	250	dth	C001
D02	dishTV	1000	dth	C005
D03	reliance	350	dth	C004
D04	airtel	450	dth	C006
D05	airtel	490	dth	C008
D06	videocon	399	dth	C005
D07	TATAsky	100	dth	C008
D08	airtel	180	dth	C008
D09	videocon	290	dth	C005
D10	TATAsky	300	dth	C007

5.book_movies

INSERT ALL

INTO book_movies (mid, location, language, cinemahall, amount, ptype, cid) VALUES ('M01', 'surat', 'english', 'PVR', '250', 'movie', 'C002')

INTO book_movies (mid, location, language, cinemahall, amount, ptype, cid) VALUES ('M02', 'surat', 'gujrati', 'INOX', '300', 'movie', 'C004')

DIGITAL PAYMENT

INTO book_movies (mid, location, language, cinemahall, amount, ptype, cid) VALUES ('M03', 'baroda', 'hindi', 'valentine', '450', 'movie', 'C001')

INTO book_movies (mid, location, language, cinemahall, amount, ptype, cid) VALUES ('M04', 'vesu', 'hindi', 'vaishali', '250', 'movie', 'C009')

INTO book_movies (mid, location, language, cinemahall, amount, ptype, cid) VALUES ('M05', 'nadiad', 'english', 'INOX', '350', 'movie', 'C002')

INTO book_movies (mid, location, language, cinemahall, amount, ptype, cid) VALUES ('M06', 'nadiad', 'hindi', 'vaishali', '520', 'movie', 'C001')

INTO book_movies (mid, location, language, cinemahall, amount, ptype, cid) VALUES ('M07', 'baroda', 'english','PVR', '350', 'movie', 'C005')

INTO book_movies (mid, location, language, cinemahall, amount, ptype, cid) VALUES ('M08', 'nadiad', 'hindi','vaishali', '350', 'movie', 'C006')

INTO book_movies (mid, location, language, cinemahall, amount, ptype, cid) VALUES ('M09', 'surat', 'english','INOX', '700', 'movie', 'C003')

INTO book_movies (mid, location, language, cinemahall, amount, ptype, cid) VALUES ('M10', 'surat', 'english','PVR', '250', 'movie', 'C002')

select * from dual

- SELECT * FROM book_movies

MID	LOCATION	LANGUAGE	CINEMAHALL	AMOUNT	PTYPE	CID
M01	surat	english	PVR	250	movie	C002
M02	surat	gujrati	INOX	300	movie	C004
M03	baroda	hindi	valentine	450	movie	C001
M04	vesu	hindi	vaishali	250	movie	C009
M05	nadiad	english	INOX	350	movie	C002
M06	nadiad	hindi	vaishali	520	movie	C001
M07	baroda	english	PVR	350	movie	C005
M08	nadiad	hindi	vaishali	350	movie	C006
M09	surat	english	INOX	700	movie	C003
M10	surat	english	PVR	250	movie	C002

6.mobile_recharge

INSERT ALL

INTO mobile_recharge (rid, m_no, type, operator, ptype, amount, cid) VALUES ('R01', '1567704505', 'postpaid', 'vodafone', 'mobile', '40', 'C001')

INTO mobile_recharge (rid, m_no, type, operator, ptype, amount, cid) VALUES ('R02', '865677045', 'postpaid', 'idea', 'mobile', '100', 'C003')

INTO mobile_recharge (rid, m_no, type, operator, ptype, amount, cid) VALUES ('R03', '755677595', 'prepaid', 'airtel', 'mobile', '350', 'C004')

INTO mobile_recharge (rid, m_no, type, operator, ptype, amount, cid) VALUES ('R04', '755678425', 'prepaid', 'vodafone', 'mobile', '10', 'C008')

INTO mobile_recharge (rid, m_no, type, operator, ptype, amount, cid) VALUES ('R05', '755678425', 'prepaid', 'vodafone', 'mobile', '50', 'C001')

INTO mobile_recharge (rid, m_no, type, operator, ptype, amount, cid) VALUES ('R06', '895678425', 'postpaid', 'bsnl', 'mobile', '500', 'C003')

INTO mobile_recharge (rid, m_no, type, operator, ptype, amount, cid) VALUES ('R07', '995678425', 'postpaid', 'jio', 'mobile', '559', 'C008')

INTO mobile_recharge (rid, m_no, type, operator, ptype, amount, cid) VALUES ('R08', '9986978425', 'prepaid', 'idea', 'mobile', '250', 'C005')

INTO mobile_recharge (rid, m_no, type, operator, ptype, amount, cid) VALUES ('R09', '8886978425', 'prepaid', 'vodafone', 'mobile', '5', 'C005')

INTO mobile_recharge (rid, m_no, type, operator, ptype, amount, cid) VALUES ('R10', '8886978425', 'prepaid', 'vodafone', 'mobile', '150', 'C002')

select * from dual;

- SELECT * FROM mobile_recharge

RID	M_NO	TYPE	OPERATOR	PTYPE	AMOUNT	CID
R01	1567704505	postpaid	vodafone	mobile	40	C001
R02	865677045	postpaid	idea	mobile	100	C003
R03	755677595	prepaid	airtel	mobile	350	C004
R04	755678425	prepaid	vodafone	mobile	10	C008
R05	755678425	prepaid	vodafone	mobile	50	C001
R06	895678425	postpaid	bsnl	mobile	500	C003
R07	995678425	postpaid	jio	mobile	559	C008
R08	9986978425	prepaid	idea	mobile	250	C005
R09	8886978425	prepaid	vodafone	mobile	5	C005
R10	8886978425	prepaid	vodafone	mobile	150	C002

7.electricity_bills

INSERT ALL

 INTO electricity_bills (eid , type , amount , ptype , cid) VALUES ('E01', 'electricity boards', '450', 'electricity', 'C002')

 INTO electricity_bills (eid , type , amount , ptype , cid) VALUES ('E02', 'apartment', '250', 'electricity', 'C001')

 INTO electricity_bills (eid , type , amount , ptype , cid) VALUES ('E03', 'apartment', '750', 'electricity', 'C001')

 INTO electricity_bills (eid , type , amount , ptype , cid) VALUES ('E04', 'apartment', '900', 'electricity', 'C005')

 INTO electricity_bills (eid , type , amount , ptype , cid) VALUES ('E05', 'electricity boards', '400', 'electricity', 'C008')

 INTO electricity_bills (eid , type , amount , ptype , cid) VALUES ('E06', 'apartment', '750', 'electricity', 'C007')

 INTO electricity_bills (eid , type , amount , ptype , cid) VALUES ('E07', 'electricity boards', '1000', 'electricity', 'C005')

 INTO electricity_bills (eid , type , amount , ptype , cid) VALUES ('E08', 'electricity boards', '1200', 'apartment', 'C008')

 INTO electricity_bills (eid , type , amount , ptype , cid) VALUES ('E09', 'electricity boards', '1500', 'apartment', 'C009')

 INTO electricity_bills (eid , type , amount , ptype , cid) VALUES ('E10', 'electricity boards', '1500', 'apartment', 'C010')

select * from dual;

- SELECT * FROM electricity_bills

DIGITAL PAYMENT

EID	TYPE	AMOUNT	PTYPE	CID
E01	electricity boards	450	electricity	C002
E02	apartment	250	electricity	C001
E03	apartment	750	electricity	C001
E04	apartment	900	electricity	C005
E05	electricity boards	400	electricity	C008
E06	apartment	750	electricity	C007
E07	electricity boards	1000	electricity	C005
E08	electricity boards	1200	apartment	C008
E09	electricity boards	1500	apartment	C009
E10	electricity boards	1500	apartment	C010

8.gas_bills

INSERT ALL

INTO gas_bills (gid , gas_provider , consumer_no , amount , ptype , cid) VALUES ('G01', 'adani gas', '123', '450', 'gas', 'C003')

INTO gas_bills (gid , gas_provider , consumer_no , amount , ptype , cid) VALUES ('G02', 'gujarat gas', '133', '1000', 'gas', 'C005')

INTO gas_bills (gid , gas_provider , consumer_no , amount , ptype , cid) VALUES ('G03', 'tripura natural gas', '133', '1550', 'gas', 'C007')

INTO gas_bills (gid , gas_provider , consumer_no , amount , ptype , cid) VALUES ('G04', 'adani gas', '143', '950', 'gas', 'C007')

INTO gas_bills (gid , gas_provider , consumer_no , amount , ptype , cid) VALUES ('G05', 'adani gas', '153', '1050', 'gas', 'C005')

INTO gas_bills (gid , gas_provider , consumer_no , amount , ptype , cid) VALUES ('G06', 'tripura natural gas', '163', '1300', 'gas', 'C003')

INTO gas_bills (gid , gas_provider , consumer_no , amount , ptype , cid) VALUES ('G07', 'tripura natural gas', '173', '1350', 'gas', 'C005')

INTO gas_bills (gid , gas_provider , consumer_no , amount , ptype , cid) VALUES ('G08', 'gujarat gas', '173', '1100', 'gas', 'C002')

INTO gas_bills (gid , gas_provider , consumer_no , amount , ptype , cid) VALUES ('G09', 'adani gas', '183', '2000', 'gas', 'C005')

DIGITAL PAYMENT

 INTO gas_bills (gid , gas_provider , consumer_no , amount , ptype , cid) VALUES ('G10', 'adani gas', '183', '2500', 'gas', 'C009')

select * from dual;

- SELECT * FROM gas_bills

GID	GAS_PROVIDER	CONSUMER_NO	AMOUNT	PTYPE	CID
G01	adani gas	123	450	gas	C003
G02	gujarat gas	133	1000	gas	C005
G03	tripura natural gas	133	1550	gas	C007
G04	adani gas	143	950	gas	C007
G05	adani gas	153	1050	gas	C005
G06	tripura natural gas	163	1300	gas	C003
G07	tripura natural gas	173	1350	gas	C005
G08	gujarat gas	173	1100	gas	C002
G09	adani gas	183	2000	gas	C005
G10	adani gas	183	2500	gas	C009

9.offers

OFFERS:

 INSERT ALL

 INTO offers (promocode , ptype , description) VALUES ('valid2', 'mobile', '100 cashback ')

 INTO offers (promocode , ptype , description) VALUES ('talktime50', 'mobile', '50 talktime on recharge of 50')

 INTO offers (promocode , ptype , description) VALUES ('cashback1000', 'gas', 'cashback 1000 on bill more than 1000')

 INTO offers (promocode , ptype , description) VALUES ('cashback500', 'dth', 'cashback 500 on recharge more than 500')

select * from dual;

- SELECT * FROM offer

PROMOCODE	PTYPE	DESCRIPTION
valid2	mobile	100 cashback
talktime50	mobile	50 talktime on recharge of 50
cashback1000	gas	cashback 1000 on bill more than 1000
cashback500	dth	cashback 500 on recharge more than 500

10.wallet

INSERT ALL

INTO wallet (wid , cid , balance) VALUES ('1', 'C001', '2000')

INTO wallet (wid , cid , balance) VALUES ('2', 'C002', '8000')

INTO wallet (wid , cid , balance) VALUES ('3', 'C003', '5000')

INTO wallet (wid , cid , balance) VALUES ('4', 'C004', '3000')

INTO wallet (wid , cid , balance) VALUES ('5', 'C005', '6000')

INTO wallet (wid , cid , balance) VALUES ('6', 'C006', '9000')

INTO wallet (wid , cid , balance) VALUES ('7', 'C007', '5000')

INTO wallet (wid , cid , balance) VALUES ('8', 'C008', '6000')

INTO wallet (wid , cid , balance) VALUES ('9', 'C009', '8000')

INTO wallet (wid , cid , balance) VALUES ('10', 'C010', '2000')

select * from dual;

- SELECT * FROM wallet

DIGITAL PAYMENT

WID	CID	BALANCE
1	C001	10000
2	C002	8000
3	C003	5000
4	C004	3000
5	C005	6000
6	C006	9000
7	C007	5000
8	C008	6000
9	C009	8000
10	C010	2000

11.quetion

INSERT INTO quetion (q_no , q_name) VALUES ('1','What your favorite colour?');

- SELECT * FROM quetion

Q_NO	Q_NAME
1	What your favorite colour?

12.feedback

INSERT INTO feedback(cphone , message) VALUES (123456789,'please add more offers..');

- Select* from feedback

CPHONE	MESSAGE
123456789	please add more offers..

13.payment

INSERT ALL

 INTO payment (pid , ptype , promocode , cid , amount) VALUES ('1', 'mobile', 'valid2', 'C002', '250')

 INTO payment (pid , ptype ,   promocode , cid , amount) VALUES ('2', 'electricity', '', 'C002', '450'0)

INTO payment (pid , ptype , promocode , cid , amount) VALUES ('3', 'gas', 'cashback1000', 'C005', '135')

INTO payment (pid , ptype , promocode , cid , amount) VALUES ('4', 'mobile', 'valid2', 'C008', '10')

select * from dual;

- SELECT * FROM payment

PID	PTYPE	PROMOCODE	CID	AMOUNT
5	mobile	valid2	C002	250
1	mobile	valid2	C002	250
2	gas	cashback1000	C002	2000
3	gas	cashback1000	C005	135
4	mobile	valid2	C008	10

14.transaction
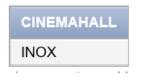
- SELECT * FROM TRANSACTION

TID	AMOUNT	T_DATE	CID	PID
2	2000	02/02/2011	C001	1
1	500	02/02/2017	C001	1

5.3 Queries:

1. To get name of cinemahall from surat which has amount of ticket is greater than the average amount

QUERY/PROGRAM SELECT cinemahall from book_movies WHERE location='surat' AND amount>(select avg(amount) from book_movies)

OUTPUT:

CINEMAHALL
INOX

2. Total electricity_bills paid by a client

QUERY/PROGRAM SELECT c.cid,c.cname, SUM(amount) AS TotalBills FROM electricity_bills e JOIN customer c on c.cid=e.cid GROUP BY c.cid,c.cname;

OUTTPUT:

CID	CNAME	TOTALBILLS
C001	monika	1000
C005	riya	1900
C010	siya	1500
C007	apexa	750
C008	bhavna	1600
C009	priya	1500
C002	bhavna	450

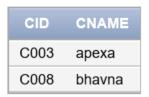3. find the name of customer who has paid gas_bills greater than 2000

QUERY/PROGRAM: SELECT cname FROM customer WHERE cid = ANY (SELECT cid FROM gas_bills WHERE amount>2000);

OUTPUT:

CNAME
priya

4. Find find customer who has recharge of greater then or equal to 500 amount

QUERY/PROGRAM: SELECT CID,cname FROM customer c WHERE EXISTS (SELECT operator FROM mobile_recharge WHERE cid = c.CID AND amount>=500);

OUTPUT:

CID	CNAME
C003	apexa
C008	bhavna

5. Print wallet balance of all customer

QUERY/PROGRAM: select cname as Customer_Name,balance as Balance from wallet w,customer c where c.cid=w.cid;

OUTPUT:

CUSTOMER_NAME	BALANCE
monika	10000
bhavna	8000
apexa	5000
mina	3000
riya	6000
jiiya	9000
apexa	5000
bhavna	6000
priya	8000
siya	2000

6. Show name of all cinemahall for all city

QUERY/PROGRAM: SELECT SELECT location AS City,cinemahall AS Cinemahall FROM book_movies b INNER JOIN personal_info p ON p.CITY=b.location.

OUTPUT:

CITY	CINEMAHALL
surat	PVR
surat	INOX
surat	INOX
surat	PVR
nadiad	vaishali
nadiad	vaishali
nadiad	INOX
baroda	PVR
baroda	valentine
surat	PVR
More than 10 rows available. Increase rows selector to view more rows.	

7. Show name of customer who's wallet balance between 5000 and 7000

QUERY/PROGRAM: SELECT c.cname,w.balance from customer c INNER JOIN wallet w ON w.cid=c.cid AND balance BETWEEN 5000 AND 7000

OUTPUT:

CNAME	BALANCE
apexa	5000
riya	6000
apexa	5000
bhavna	6000

DIGITAL PAYMENT

5.4 Pl/SQL BLOCKS (PROCEDURES AND FUNCTION)

5.4.1 FUNCTIONS

1. CREATE FUNCTION FOR PASSWORD RECOVERY.

QUERY/PROGRAM:

CREATE OR REPLACE FUNCTION PASSRECOVERY (C_ID IN VARCHAR,C_PHONE IN NUMBER) RETURN VARCHAR IS

  PASS VARCHAR(20);

  TP NUMBER(10);

BEGIN

  SELECT CPHONE INTO TP FROM CUSTOMER WHERE CID=C_ID;

  DBMS_OUTPUT.ENABLE();

  IF(TP=C_PHONE) THEN

    SELECT PASSWORD INTO PASS FROM CUSTOMER WHERE CID=C_ID;

    END IF;

  RETURN PASS;

END;

OUTPUT:

SELECT PASSRECOVERY('C005',5678901) FROM DUAL;

PASSRECOVERY('C005',5678901)
riya

2. CREATE A FUNCTION TO FIND DESCRIPTION OF THE PROMOCODE.

QUERY/PROGRAM:

CREATE OR REPLACE FUNCTION OFFER_DESC(P_CODE IN VARCHAR)RETURN VARCHAR IS

  DES VARCHAR(50);

BEGIN

SELECT DESCRIPTION INTO DES FROM OFFERS WHERE PROMOCODE=P_CODE;

   RETURN DES;

END;

OUTPUT:

SELECT OFFER_DESC('valid2') FROM DUAL;

OFFER_DESC('VALID2')
100 cashback

5.4.2 PROCEDURES:

1. CREATE A PROCEDURE FOR PASSWORD RECOVERY.

QUERY/PROGRAM:

CREATE OR REPLACE PROCEDURE PASS_RECOVERY_S (C_ID IN VARCHAR,C_PHONE IN NUMBER) IS

   PASS VARCHAR(20);

BEGIN

   PASS:=PASSRECOVERY(C_ID,C_PHONE);

   DBMS_OUTPUT.ENABLE();

   DBMS_OUTPUT.PUT_LINE(TO_CHAR(PASS) || ' IS YOUR PASSWORD');

END;

OUTPUT:

BEGIN

  PASS_RECOVERY_S('C005',5678901);

END;

```
riya IS YOUR PASSWORD

Statement processed.
```

0.00 seconds

2. PROCEDURE TO APPLY PROMO-CODE AT PAYMENT TIME..

QUERY/PROGRAM:

CREATE OR REPLACE PROCEDURE APPLY_PROMO(P_ID IN VARCHAR2) IS

  P_CODE VARCHAR2(20);

  AMT NUMBER(20);

  P_TYPE VARCHAR(20);

  T_ID NUMBER(5);

BEGIN

  DBMS_OUTPUT.ENABLE();

  SELECT PROMOCODE INTO P_CODE FROM PAYMENT WHERE PID=P_ID;

  SELECT MAX(TID) INTO T_ID FROM TRANSACTION;

  SELECT AMOUNT INTO AMT FROM TRANSACTION WHERE TID=T_ID;

  SELECT PTYPE INTO P_TYPE FROM PAYMENT WHERE PID=P_ID;

  IF(P_TYPE='mobile') THEN

    IF(P_CODE='valid2') THEN

      AMT:=AMT-10;

    END IF;

    IF(P_CODE='talktime50') THEN

      AMT:=AMT-50;

    END IF;

  END IF;

  IF(P_TYPE='gas') THEN

    IF(P_CODE='cashback1000') THEN

39

```
        IF(AMT>1000) THEN

           AMT:=AMT-1000;

        ELSE

           DBMS_OUTPUT.PUT_LINE('ENTER VALID AMOUNT');

        END IF;

    END IF;

  END IF;

  IF(P_TYPE='dth') THEN

    IF(P_CODE='cashback500') THEN

      IF(AMT>500) THEN

         AMT:=AMT-500;

      ELSE

         DBMS_OUTPUT.PUT_LINE('ENTER VALID AMOUNT');

      END IF;

    END IF;

  END IF;

  UPDATE TRANSACTION SET AMOUNT=AMT WHERE TID=T_ID;

  DBMS_OUTPUT.PUT_LINE('effective amount '||to_char(AMT));
END;
```

OUTPUT:

```
BEGIN

  APPLY_PROMO(1);

END;
```

TID	AMOUNT	T_DATE	CID	PID
2	500	02/02/2011	C001	1
4	490	02/02/2011	C001	1
1	90	02/03/2018	C001	1
3	500	02/02/2011	C001	1

5.5 VIEWS:

1.CREATE VIEW FOR CUSTOMER DETAILS.

QUERY/PROGRAM:

CREATE VIEW CDETAIL AS SELECT CNAME,EMAIL FROM CUSTOMER;

OUTPUT:

SELECT * FROM CDETAIL

CNAME	EMAIL
monika	monika@gmail.com
bhavna	bhavna@gmail.com
apexa	apexa@gmail.com
mina	mina@gmail.com
riya	riya@gmail.com
jiiya	jiya@gmail.com
apexa	apexa@gmail.com
bhavna	bhavna@gmail.com
priya	priya@gmail.com
siya	siya@gmail.com

2.CREATE A VIEW FOR CUSTOMER TRANSACTION DETAILS.

QUERY/PROGRAM:

CREATE VIEW TRANS_DETAIL AS SELECT CID,AMOUNT FROM TRANSACTION;

OUTPUT:

SELECT * FROM TRANS_DETAIL

CID	AMOUNT
C001	2000
C001	500

5.6 TRIGGURES

1.MAKE TRIGGER FOR PAYMENT IN WHICH TRANSACTION IS DONE WHEN PAYMENT ENTRY IS CREATED

QUERY/PROGRAM:

CREATE TRIGGER PAYMENT_TX AFTER INSERT ON PAYMENT

DECLARE

  id number(5);

BEGIN

  SELECT MAX(TID) INTO id FROM TRANSACTION;

  id := id+1;

  INSERT INTO TRANSACTION VALUES(id,500,sysdate,'C001',1);

END;

OUTPUT:

INSERT INTO payment (pid , ptype , promocode , cid , amount) VALUES ('6', 'mobile', 'valid2', 'C009', '500')

PID	PTYPE	PROMOCODE	CID	AMOUNT
5	mobile	valid2	C002	250
6	mobile	valid2	C009	500
1	mobile	valid2	C002	250
2	gas	cashback1000	C002	2000
3	gas	cashback1000	C005	135
4	mobile	valid2	C008	10

TID	AMOUNT	T_DATE	CID	PID
2	2000	02/02/2011	C001	1
3	500	02/02/2011	C001	1
1	500	02/02/2017	C001	1
4	500	10/16/2018	C009	6

2.MAKE TRIGGER ON PAYMENT WHEN PAYMENT IS DONE THEN AUTOMATICALLY DECREMENT BALANCE FROM WALLET BALANCE.

QUERY/PROGRAM:

CREATE TRIGGER WALLET_DEC AFTER INSERT ON PAYMENT

DECLARE

  BL NUMBER(20);

  RL NUMBER(20);

BEGIN

  SELECT AMOUNT INTO BL FROM PAYMENT WHERE PID=1;

  SELECT BALANCE INTO RL FROM WALLET WHERE WID=1;

  RL:=RL-BL;

  UPDATE WALLET SET BALANCE=RL WHERE WID=1;

END;

OUTPUT:

INSERT INTO payment (pid , ptype , promocode , cid , amount) VALUES ('7', 'mobile', 'valid2', 'C009', '250')

WID	CID	BALANCE
1	C001	10000
2	C002	8000
3	C003	5000
4	C004	3000
5	C005	6000
6	C006	9000
7	C007	5000
8	C008	6000
9	C009	8000
10	C010	2000

WID	CID	BALANCE
1	C001	9750
2	C002	8500
3	C003	5500
4	C004	3500
5	C005	6500
6	C006	9500
7	C007	5500
8	C008	6500
9	C009	8500
10	C010	2500

5.7 CURSOR:
- ### IMPLICITE CURSOR

1.IMPLICITE CURSOR THAT TNSERT NEW CUSTOER AND PRINT THE MESSAGE LIKE 'THANK YOU FOR REGISTRATION'.

QUERY/PROGRAM:

DECLARE

  C_ID VARCHAR2(5);

  NAME VARCHAR2(20);

  M_NO NUMBER(10);

  PASS VARCHAR2(20);

  E_MAIL VARCHAR2(20);

BEGIN

  C_ID:=:ENTER_CID;

  NAME:=:ENTER_NAME;

  M_NO:=:ENTER_MOBILE_NUMBER;

  PASS:=:ENTER_PASSWORD;

  E_MAIL:=:ENTER_EMAIL_ADDRESS;

  INSERT INTO CUSTOMER VALUES(C_ID, NAME, M_NO, PASS, E_MAIL);

  IF SQL%FOUND THEN

    DBMS_OUTPUT.ENABLE();

    DBMS_OUTPUT.PUT_LINE('THANKS YOU FOR REGRISTRATION..!');

  END IF;

END;

OUTPUT:

DIGITAL PAYMENT

```
THANKS YOU FOR REGRISTRATION..!

1 row(s) inserted.
```

CID	CNAME	CPHONE	PASSWORD	EMAIL
C011	ANIMA	1247952	ANIMA	ANIMA@gmail.com
C001	monika	1234567890	monika	monika@gmail.com
C002	bhavna	234567890	bhavna	bhavna@gmail.com
C003	apexa	34567890	apexa	apexa@gmail.com
C004	mina	4567890	mina	mina@gmail.com
C005	riya	5678901	riya	riya@gmail.com
C006	jiiya	678901	jiya	jiya@gmail.com
C007	apexa	34567890	apexa	apexa@gmail.com
C008	bhavna	234567890	bhavna	bhavna@gmail.com
C009	priya	890123	priya	priya@gmail.com
More than 10 rows available. Increase rows selector to view more rows.				

2.CREATE IMPLICITE CURSOR FOR INCREMENT WALLET BALANCE.

QUERY/PROGRAM:
```
DECLARE
  N NUMBER(20);
BEGIN
  N:=:N;
  UPDATE  WALLET SET BALANCE=BALANCE+N;
  IF SQL%FOUND  THEN
     DBMS_OUTPUT.ENABLE();
     DBMS_OUTPUT.PUT_LINE(TO_CHAR(SQL%ROWCOUNT) || ' ROWS UPDATED
BY ' || TO_CHAR(N) || 'RS.');
  END IF;
END;
```
OUTPUT:

Enter Bind Variables - Microsoft Edge ⎯ ☐ ✕

127.0.0.1:8080/apex/f?p=4500:138:725531541160189:::

Submit

:N 100   ✕

```
10 ROWS UPDATED BY 100RS.

1 row(s) updated.
```

- ## **EXPLICITE CURSOR**

1.CREATE EXPLICITE CURSOR FOR SHOW BALANCE FROM WALLET WHICH EVER GREATER THAN 8000 BALANCE.

QUERY/PROGRAM:
```
DECLARE

DECLARE
CURSOR WALL_AMT IS SELECT WID,BALANCE FROM WALLET WHERE
BALANCE>8000;
  W_AMT WALL_AMT%ROWTYPE;
BEGIN
  OPEN WALL_AMT;
  FETCH WALL_AMT INTO W_AMT;
  DBMS_OUTPUT.ENABLE();
  DBMS_OUTPUT.PUT_LINE(W_AMT.WID || W_AMT.BALANCE);
  CLOSE WALL_AMT;
END;
```

OUTPUT:

```
19850

Statement processed.
```

2.CREATE EXPLICITE CURSOR FOR SHOW ALL TRANSACTIONS FOR PERTICULAR CUSTOMER.

QUERY/PROGRAM:
```
DECLARE
CURSOR TRANS_OFFER IS SELECT CID FROM CUSTOMER;
  C_ID CUSTOMER.CID%TYPE;
  CNT NUMBER(3);
  TEMP NUMBER(3);
BEGIN
  CNT:=0;
  DBMS_OUTPUT.ENABLE();
  FOR I IN TRANS_OFFER
  LOOP
```
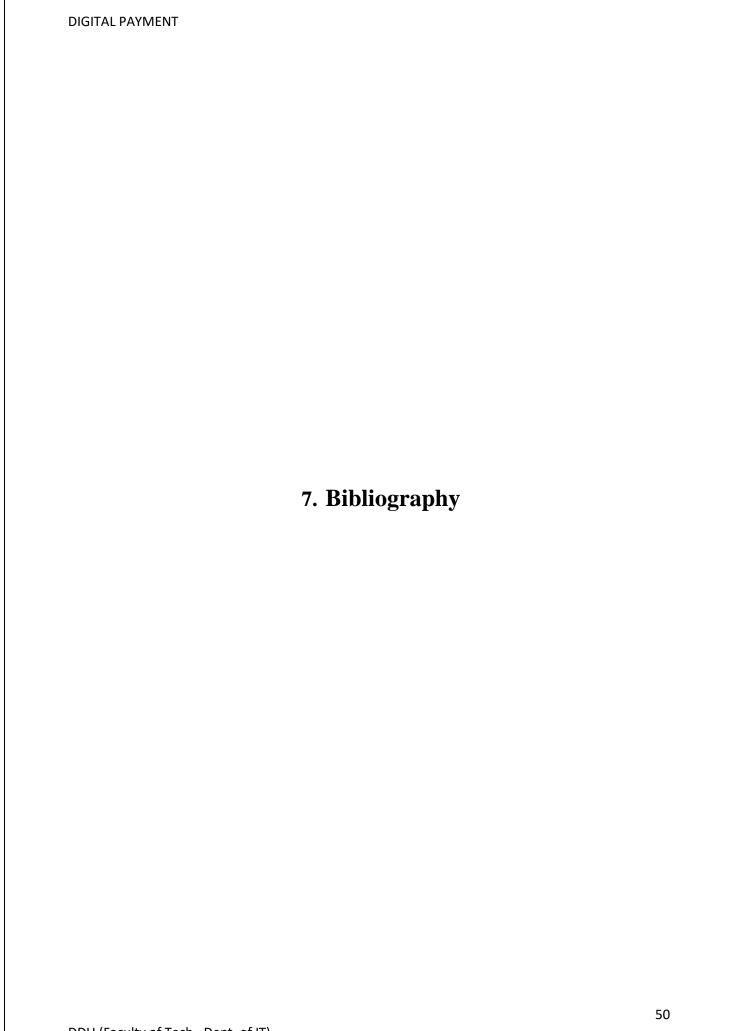
```
    CNT:=0;
    SELECT COUNT(RID) INTO TEMP FROM MOBILE_RECHARGE WHERE
CID=I.CID;
    IF(TRANS_OFFER%FOUND) THEN
      CNT:=TEMP+CNT;
    END IF;
    SELECT COUNT(MID) INTO TEMP FROM BOOK_MOVIES WHERE CID=I.CID;
    IF(TRANS_OFFER%FOUND) THEN
      CNT:=TEMP+CNT;
    END IF;
    SELECT COUNT(DID) INTO TEMP FROM DTH_RECHARGE WHERE CID=I.CID;
    IF(TRANS_OFFER%FOUND) THEN
      CNT:=TEMP+CNT;
    END IF;
    SELECT COUNT(EID) INTO TEMP FROM ELECTRICITY_BILLS WHERE
CID=I.CID;
    IF(TRANS_OFFER%FOUND) THEN
      CNT:=TEMP+CNT;
    END IF;
    SELECT COUNT(GID) INTO TEMP FROM GAS_BILLS WHERE CID=I.CID;
    IF(TRANS_OFFER%FOUND) THEN
      CNT:=TEMP+CNT;
    END IF;
    IF(CNT>5) THEN
      UPDATE WALLET SET BALANCE=BALANCE+100 WHERE CID=C_ID;

    END IF;
    DBMS_OUTPUT.PUT_LINE(TO_CHAR(I.CID) ||' HAS DONE ' || TO_CHAR(CNT)
||'TRANSACTIONS');

  END LOOP;
  COMMIT;
END;
```

OUTPUT:

```
C001 HAS DONE 7TRANSACTIONS
C002 HAS DONE 6TRANSACTIONS
C003 HAS DONE 5TRANSACTIONS
C004 HAS DONE 3TRANSACTIONS
C005 HAS DONE 12TRANSACTIONS
C006 HAS DONE 2TRANSACTIONS
C007 HAS DONE 4TRANSACTIONS
C008 HAS DONE 7TRANSACTIONS
C009 HAS DONE 3TRANSACTIONS
C010 HAS DONE 1TRANSACTIONS
C011 HAS DONE 0TRANSACTIONS
```

6. FUTURE ENHANCEMENTS OF THE SYSTEM

For future enhancement we will provide the user interactive GUI. We will also add extra features of various payments and its methods. We are also looking forward to extend this project on all different type of transaction platforms. We are making this database efficient and easy to implement with huge data capacity. Payment methods and user data inputs will be lot easy after the implementation of GUI.

7. Bibliography

For the successful working of myproject I have referred many sources for. The code snippets, logics tips &tips from the various books as well as websites. mostly I Searched For requirement possession on the websites. Many of the logics in my project are used from the book which I referred &the concepts there in book which indeed provided a platform to achieve such reliable system database.

Reference books:

➢ Data Base System Concepts
- Henry F.Korth & A.Silberschatz. 2nd Ed. McGraw-Hill 1991

➢ SQL, PL/SQL The programming language of Oracle
- Ivan Bayross, BPB Publications

References Website:

➢ https://stackoverflow.com/
➢ https://docs.oracle.com/en/
➢ https://www.tutorialspoint.com/
➢ https://www.w3schools.com/