Mini Project - SQL

Domain: ICIC Bank Management System

PROBLEM STATEMENT: -

The Bank wants to build the database for their customer and employees with all the details like creating an account in a bank type of account which helps the bank to retrieve the data on one click so they can find out the day-to-day update easily on their database.

In this project, I have built the database with 'BANK 'and created 6 tables by using the SQL language.

* Creating database and tables and inserting the data

```
CREATE DATABASE BANK;
USE BANK;
CREATE TABLE Account_Type(Account_no INT PRIMARY KEY,Type_Account VARCHAR(500),Manager_id
INT,Department_name VARCHAR(500),Opening_Date VARCHAR(50));
INSERT INTO Account Type (Account no, Type Account, Manager id, Department name,
Opening Date)
VALUES (12345, 'Saving', 20, 'Account', '23-Apr-03'),(67899, 'loan', 21, 'Loan', '24-May-04'),
(10112, 'Saving', 22, 'HR', '04-Jan-06'),(13145, 'loan', 23, 'Admin', '23-Apr-03'),
(15167, 'current', 24, 'Sales', '24-May-04'),(18190, 'business', 25, 'Security', '04-Jan-06'),
(20210, 'loan', 26, 'Account', '23-Apr-03'),(22230, 'Saving', 27, 'Loan', '24-May-04'),
(24250, 'loan', 28, 'HR', '04-Jan-06'),(26270, 'current', 29, 'Admin', '23-Apr-03'),
(28290, 'business', 30, 'Sales', '24-May-04'),(30310, 'current', 31, 'Security', '04-Jan-06'),
(32330, 'Saving', 32, 'Account', '23-Apr-03'),(34350, 'loan', 33, 'Loan', '24-May-04'),
(36370, 'current', 34, 'HR', '04-Jan-06'),(38390, 'current', 35, 'Admin', '23-Apr-03'),
(40410, 'business', 36, 'Sales', '24-May-04'),(42430, 'loan', 37, 'Security', '04-Jan-06'),
(44450, 'Saving', 38, 'Account', '23-Apr-03'),(46470, 'loan', 39, 'Loan', '24-May-04'),
(48490, 'Saving', 40, 'HR', '04-Jan-06');
```

SELECT * FROM Account_Type;

Account_no	Type_Account	Manager_id	Department_name	Opening_Date
10112	Saving	22	HR	4-Jan-06
12345	Saving	20	Account	23-Apr-03
13145	loan	23	Admin	23-Apr-03
15167	current	24	Sales	24-May-04
18190	business	25	Security	4-Jan-06
20210	loan	26	Account	23-Apr-03
22230	Saving	27	Loan	24-May-04
24250	loan	28	HR	4-Jan-06
26270	current	29	Admin	23-Apr-03
28290	business	30	Sales	24-May-04
30310	current	31	Security	4-Jan-06
32330	Saving	32	Account	23-Apr-03
34350	loan	33	Loan	24-May-04
36370	current	34	HR	4-Jan-06
38390	current	35	Admin	23-Apr-03
40410	business	36	Sales	24-May-04
42430	loan	37	Security	4-Jan-06
44450	Saving	38	Account	23-Apr-03
46470	loan	39	Loan	24-May-04
48490	Saving	40	HR	4-Jan-06
67899	loan	21	Loan	24-May-04

CREATE TABLE Departments(Department_id INT PRIMARY KEY,Department_name VARCHAR(500),Manager_id INT,Employee_id INT,Account_no INT,FOREIGN KEY (Account_no) REFERENCES Account_Type(Account_no));

INSERT INTO Departments (Department_id, Department_name, Manager_id, Employee_id, Account_no) VALUES(1, 'Account', 20, 50, 12345),(8, 'Loan', 21, 51, 67899),(11, 'HR', 22, 52, 10112),(16, 'Admin', 23, 53, 13145),(19, 'Sales', 24, 54, 15167),(21, 'Security', 25, 55, 18190);

SELECT * FROM Departments;

Department_id	Department_name	Manager_id	Employee_id	Account_no
1	Account	20	50	12345
8	Loan	21	51	67899
11	HR	22	52	10112
16	Admin	23	53	13145
19	Sales	24	54	15167
21	Security	25	55	18190

CREATE TABLE BankDetails(Branch_code INT PRIMARY KEY,Address VARCHAR(500),Department_id INT,Branch_name VARCHAR(500),State VARCHAR(500),FOREIGN KEY (Department_id) REFERENCES Departments(Department_id));

INSERT INTO BankDetails (Branch_code, Address, Department_id, Branch_name, State) VALUES(100,

'Ngapur', 1, 'ICIC_N', 'Maharashtra'),(101, 'pune', 1, 'ICIC_P', 'Maharashtra'),

(102, 'Mumbai', 1, 'ICIC_M', 'Maharashtra'),(103, 'delhi', 1, 'ICIC_D', 'DEL'),

(104, 'Mumbai', 1, 'ICIC_M', 'Maharashtra'),(105, 'delhi', 1, 'ICIC_D', 'DEL'),

(106, 'Ngapur', 1, 'ICIC_N', 'Maharashtra'),(107, 'pune', 8, 'ICIC_P', 'Maharashtra'),

```
(108, 'Mumbai', 8, 'ICIC_M', 'Maharashtra'),(109, 'Ngapur', 8, 'ICIC_N', 'Maharashtra'), (110, 'pune', 11, 'ICIC_P', 'Maharashtra'),(111, 'Mumbai', 11, 'ICIC_M', 'Maharashtra'), (112, 'delhi', 11, 'ICIC_D', 'DEL'),(113, 'Ngapur', 11, 'ICIC_N', 'Maharashtra'), (114, 'pune', 11, 'ICIC_P', 'Maharashtra'),(115, 'Mumbai', 16, 'ICIC_M', 'Maharashtra'), (116, 'Ngapur', 16, 'ICIC_N', 'Maharashtra'), (117, 'pune', 16, 'ICIC_P', 'Maharashtra'), (118, 'Mumbai', 19, 'ICIC_M', 'Maharashtra'), (119, 'delhi', 19, 'ICIC_D', 'DEL'), (120, 'Pune', 21, 'ICIC_P', 'Maharashtra');
```

SELECT * FROM BankDetails;

Branch_code	Address	Department_id	Branch_name	State
100	Ngapur	1	ICIC_N	Maharashtra
101	pune	1	ICIC_P	Maharashtra
102	Mumbai	1	ICIC_M	Maharashtra
103	delhi	1	ICIC_D	DEL
104	Mumbai	1	ICIC_M	Maharashtra
105	delhi	1	ICIC_D	DEL
106	Ngapur	1	ICIC_N	Maharashtra
107	pune	8	ICIC_P	Maharashtra
108	Mumbai	8	ICIC_M	Maharashtra
109	Ngapur	8	ICIC_N	Maharashtra
110	pune	11	ICIC_P	Maharashtra
111	Mumbai	11	ICIC_M	Maharashtra
112	delhi	11	ICIC_D	DEL
113	Ngapur	11	ICIC_N	Maharashtra
114	pune	11	ICIC_P	Maharashtra
115	Mumbai	16	ICIC_M	Maharashtra
116	Ngapur	16	ICIC_N	Maharashtra
117	pune	16	ICIC_P	Maharashtra
118	Mumbai	19	ICIC_M	Maharashtra
119	delhi	19	ICIC_D	DEL
120	Pune	21	ICIC_P	Maharashtra

CREATE TABLE Job_Details(Job_id VARCHAR(500) PRIMARY KEY,Department_id INT,Branch_code INT,FOREIGN KEY (Department_id) REFERENCES Departments(Department_id),FOREIGN KEY (Branch code) REFERENCES BankDetails(Branch code));

INSERT INTO Job_Details (Job_id, Department_id, Branch_code)VALUES(ST_CLERK, 1, 101), (ST_MAN, 8, 108),(FI_ACCOUNT, 11, 113),(SA_REP, 19, 118); SELECT * FROM Job_Details;

Job_id	Department_id	Branch_code
FI_ACCOUNT	11	113
SA_REP	19	118
ST_CLERK	1	101
ST MAN	8	108

CREATE TABLE Employees(Employee_id INT PRIMARY KEY,First_name VARCHAR(500),Department_id INT,Manager_id INT,Job_id VARCHAR(500),Email VARCHAR(500),Hire_Date VARCHAR(500),Phone_no VARCHAR(500), salary INT,FOREIGN KEY (Department_id) REFERENCES

Departments(Department_id),FOREIGN KEY (Job_id) REFERENCES Job_Details(Job_id));

INSERT INTO Employees (Employee_id, First_name, Department_id, Manager_id, Job_id, Email, Hire_Date, Phone_no, Salary)

VALUES (50, 'Samuel', 1, 20, 'ST_CLERK', 'SMCCAIN', '23-Nov-07', '650.505.1876', 3800),

- (51, 'Allan', 8, 21, 'ST_CLERK', 'SSEWALL', '30-Jan-04', '650.505.2876', 3600),
- (52, 'Irene', 11, 22, 'ST_CLERK', 'SSTILES', '04-Mar-04', '650.505.3876', 2900),
- (53, 'Kevin', 16, 23, 'ST_CLERK', 'STOBIAS', '01-Aug-04', '650.505.4876', 2500),
- (54, 'Julia', 19, 24, 'ST_CLERK', 'SVOLLMAN', '10-Mar-05', '650.501.1876', 4000),
- (55, 'Donald', 21, 25, 'ST_CLERK', 'TFOX','15-Dec-05', '650.501.2876', 3900),
- (56, 'Christopher', 1, 26, 'ST_CLERK', 'TGATES', '03-Nov-06', '650.501.3876', 3200),
- (57, 'TJ', 8, 27, 'ST_MAN', 'TJOLSON', '11-Nov-05', '650.501.4876', 2800),
- (58, 'Lisa', 11, 28, 'ST_MAN', 'TRAJS', '19-Mar-07', '650.507.9811', 3100),
- (59, 'Karen', 16, 29, 'ST_MAN', 'VJONES', '24-Jan-08', '650.507.9822', 3000),
- (60, 'Valli', 19, 30, 'ST_MAN', 'VPATABAL','23-Feb-08', '650.507.9833', 2600),
- (61, 'Joshua', 21, 31, 'ST_MAN', 'WGIETZ','01-May-03', '650.507.9844', 6400),
- (62, 'Randall', 1, 32, 'FI_ACCOUNT', 'WSMITH','10-Oct-05', '515.123.4444', 6200),
- (63, 'Hazel', 8, 33, 'FI_ACCOUNT', 'WTAYLOR', '16-Nov-07', '515.123.5555', 11500),
- (64, 'Luis', 11, 34, 'FI_ACCOUNT', 'JNAYER','16-Jul-05', '603.123.6666', 10000),
- (65, 'Trenna', 16, 35, 'FI_ACCOUNT', 'JPATEL','28-Sep-06', '515.123.7777', 9600),
- (66, 'Den', 19, 36, 'FI_ACCOUNT', 'JRUSSEL','14-Jan-07', '515.123.8888', 7400),
- (67, 'Michael', 21, 37, 'SA_REP', 'JSEO', '08-Mar-08', '515.123.8080', 7300),
- (68, 'John', 1, 38, 'SA_REP', 'JTAYLOR','20-Aug-05','011.44.1346.329268', 6100),

(69, 'Nandita', 8, 39, 'SA_REP', 'JWHALEN','30-Oct-05', '011.44.1346.529268', 11000), (70, 'Ismael', 11, 40, 'SA_REP', 'KCHUNG','16-Feb-05','011.44.1346.52', 8800); SELECT * FROM Employees;

mployee_id	First_name	Department_id	Manager_id,	Job_id	Email	Hire_Date	Phone_no	salary
50	Samuel	1	20	ST_CLERK	SMCCAIN	23-Nov-07	650.505.1876	3800
51	Allan	8	21	ST_CLERK	SSEWALL	30-Jan-04	650.505.2876	3600
52	Irene	11	22	ST_CLERK	SSTILES	4-Mar-04	650.505.3876	2900
53	Kevin	16	23	ST_CLERK	STOBIAS	1-Aug-04	650.505.4876	2500
54	Julia	19	24	ST_CLERK	SVOLLMA N	10-Mar-05	650.501.1876	4000
55	Donald	21	25	ST_CLERK	TFOX	15-Dec-05	650.501.2876	3900
56	Christopher	1	26	ST_CLERK	TGATES	3-Nov-06	650.501.3876	3200
57	TJ	8	27	ST_MAN	TJOLSON	11-Nov-05	650.501.4876	2800
58	Lisa	11	28	ST_MAN	TRAJS	19-Mar-07	650.507.9811	3100
59	Karen	16	29	ST_MAN	VJONES	24-Jan-08	650.507.9822	3000
60	Valli	19	30	ST_MAN	VPATABA L	23-Feb-08	650.507.9833	2600
61	Joshua	21	31	ST_MAN	WGIETZ	1-May-03	650.507.9844	6400
62	Randall	1	32	FI_ACCO UNT	WSMITH	10-Oct-05	515.123.4444	6200
63	Hazel	8	33	FI_ACCO UNT	WTAYLO R	16-Nov-07	515.123.5555	11500
64	Luis	11	34	FI_ACCO UNT	JNAYER	16-Jul-05	603.123.6666	10000
65	Trenna	16	35	FI_ACCO UNT	JPATEL	28-Sep-06	515.123.7777	9600
66	Den	19	36	FI_ACCO UNT	JRUSSEL	14-Jan-07	515.123.8888	7400
67	Michael	21	37	SA_REP	JSEO	8-Mar-08	515.123.8080	7300
68	John	1	38	SA_REP	JTAYLOR	20-Aug-05	011.44.1346.32 9268	6100
69	Nandita	8	39	SA_REP	JWHALEN	30-Oct-05	011.44.1346.52 9268	11000
70	Ismael	11	40	SA_REP	KCHUNG	16-Feb-05	011.44.1346.52	8800

CREATE TABLE Customer(Account_No INT PRIMARY KEY,First_Name VARCHAR(500),City VARCHAR(500),Branch_code INT,Employee_id INT,Phone_no VARCHAR(500),ATM_NO INT UNIQUE,Exp_date VARCHAR(500),Pin_No INT UNIQUE,FOREIGN KEY (Branch_code) REFERENCES BankDetails(Branch_code),FOREIGN KEY (Employee_id) REFERENCES Employees(Employee_id));

INSERT INTO Customer (Account_No, First_Name, City, Branch_code, Employee_id, Phone_no, ATM_NO, Exp_date, Pin_No)

VALUES (12345, 'Samuel', 'Ngapur', 100, 50, '650.505.1876', 423705689, '23-Apr-06', 5689),

(67899, 'Allan', 'pune', 101, 51, '650.505.2876', 423568971, '24-May-07', 8971),

(10112, 'Irene', 'Mumbai', 102, 52, '650.505.3876', 423432253, '04-Jan-08', 12253),

(13145, 'Kevin', 'delhi', 103, 53, '650.505.4876', 423295535, '24-Jan-06', 15535),

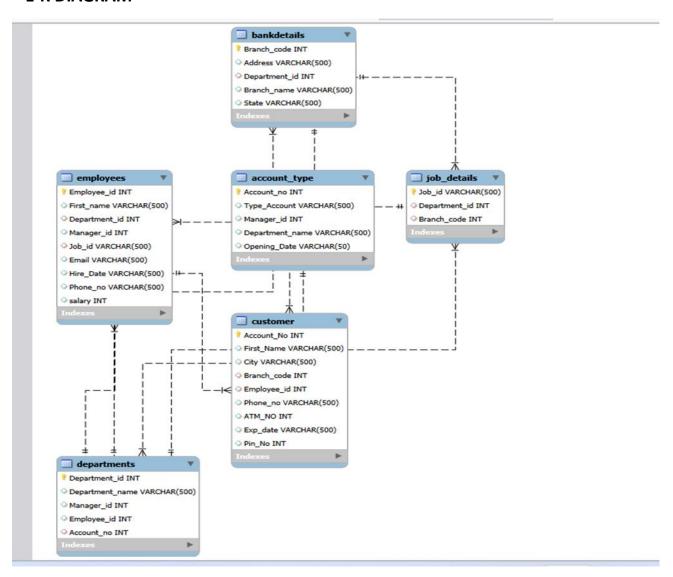
(15167, 'Julia', 'Mumbai', 104, 54, '650.501.1876', 423158817, '23-Feb-06', 18817), (18190, 'Donald', 'delhi', 105, 55, '650.501.2876', 423022099, '21-Jun-07', 22099), (20210, 'Christopher', 'Ngapur', 106, 56, '650.501.3876', 422885381, '03-Feb-08', 25381), (22230, 'TJ', 'pune', 107, 57, '650.501.4876', 422748663, '27-Jan-04', 28663), (24250, 'Lisa', 'Mumbai', 108, 58, '650.507.9811', 422611945, '20-Feb-05', 31945), (26270, 'Karen', 'Ngapur', 109, 59, '650.507.9822', 422475227, '24-Jun-06', 35227), (28290, 'Valli', 'pune', 110, 60, '650.507.9833', 422338509, '07-Feb-07', 38509), (30310, 'Joshua', 'Mumbai', 111, 61, '650.507.9844', 422201791, '13-Jan-08', 41791), (32330, 'Randall', 'delhi', 112, 62, '515.123.4444', 422065073, '17-Sep-03', 45073), (34350, 'Hazel', 'Ngapur', 113, 63, '515.123.5555', 421928355, '17-Feb-04', 48355), (36370, 'Luis', 'pune', 114, 64, '603.123.6666', 421791637, '17-Aug-05', 51637), (38390, 'Trenna', 'Mumbai', 115, 65, '515.123.7777', 421654919, '07-Jun-02', 54919), (40410, 'Den', 'Ngapur', 116, 66, '515.123.8888', 421518201, '07-Jun-02', 58201), (42430, 'Michael', 'pune', 117, 67, '515.123.8080', 421381483, '07-Jun-02', 61483), (44450, 'John', 'Mumbai', 118, 68, '011.44.1346.329268', 421244765, '07-Jun-02', 64765), (46470, 'Nandita', 'delhi', 119, 69, '011.44.1346.529268', 421108047, '21-Apr-08', 68047), (48490, 'Ismael', 'Pune', 120, 70, '011.44.1346.52', 420971329, '11-Mar-05', 71329); SELECT * FROM Customer;

Account_No	First_Name	City	Branch_code	Employee_id	Phone_no	ATM_NO	Exp_date	Pin_No
10112	Irene	Mumbai	102	52	650.505.3876	423432253	4-Jan-08	1225
12345	Samuel	Ngapur	100	50	650.505.1876	423705689	23-Apr-06	568
13145	Kevin	delhi	103	53	650.505.4876	42321992	24-Jan-06	1553
15167	Julia	Mumbai	104	54	650.501.1876	423158817	23-Feb-06	1881
18190	Donald	delhi	105	55	650.501.2876	423022099	21-Jun-07	2209
20210	Christopher	Ngapur	106	56	650.501.3876	422885381	3-Feb-08	2538
22230	TJ	pune	107	57	650.501.4876	422748663	27-Jan-04	2866
24250	Lisa	Mumbai	108	58	650.507.9811	422611945	20-Feb-05	3194
26270	Karen	Ngapur	109	59	650.507.9822	422475227	24-Jun-06	3522
28290	Valli	pune	110	60	650.507.9833	422338509	7-Feb-07	3850
30310	Joshua	Mumbai	111	61	650.507.9844	422201791	13-Jan-08	4179
32330	Randall	delhi	112	62	515.123.4444	422065073	17-Sep-03	4507
34350	Hazel	Ngapur	113	63	515.123.5555	421928355	17-Feb-04	4835
36370	Luis	pune	114	64	603.123.6666	421791637	17-Aug-05	5163
38390	Trenna	Mumbai	115	65	515.123.7777	421654919	7-Jun-02	5491
40410	Den	Ngapur	116	66	515.123.8888	421518201	7-Jun-02	5820
42430	Michael	pune	117	67	515.123.8080	421381483	7-Jun-02	6148
44450	John	Mumbai	118	68	011.44.1346.329268	421244765	7-Jun-02	6476
46470	Nandita	delhi	119	69	011.44.1346.529268	421108047	21-Apr-08	6804
48490	Ismael	Pune	120	70	011.44.1346.52	420971329	11-Mar-05	7132
67899	Allan	pune	101	51	650.505.2876	423568971	24-May-07	897

SHOW TABLES;

Tables_in_bank
account_type
bankdetails
customer
departments
employee_job_details
employees
job_details
v1
v2

* E-R DIAGRAM



* Data Retrieving Problems.

• Find an employee's whose id is 52 and branch name is icic_p

SELECT * FROM EMPLOYEES, Bank Details WHERE Employee_id = 52 AND Branch_name = 'icic_p';

or

SELECT * FROM employees INNER JOIN bankdetails ON employees.Department_id = bankdetails.Department_id WHERE employees.Employee_id = 52 AND bankdetails.Branch_name = 'icic_p';

Employee_id	First_nam	Departme	Manager_	Job_id	Email	Hire_Date	Phone_no	salary	Branch_code	Address	Department_id	Branch_name	State
52	Irene	11	22	ST_CLERK	SSTILES	4-Mar-04	650.505.3876	2900	101	pune	1	ICIC_P	Maharashtra
52	Irene	11	22	ST_CLERK	SSTILES	4-Mar-04	650.505.3876	2900	107	pune	8	ICIC_P	Maharashtra
52	Irene	11	22	ST_CLERK	SSTILES	4-Mar-04	650.505.3876	2900	110	pune	11	ICIC_P	Maharashtra
52	Irene	11	22	ST_CLERK	SSTILES	4-Mar-04	650.505.3876	2900	114	pune	11	ICIC_P	Maharashtra
52	Irene	11	22	ST_CLERK	SSTILES	4-Mar-04	650.505.3876	2900	117	pune	16	ICIC_P	Maharashtra
52	Irene	11	22	ST_CLERK	SSTILES	4-Mar-04	650.505.3876	2900	120	Pune	21	ICIC_P	Maharashtra

OR

Employee _.	First_name	Department_id	Manager_id	Job_id	Email	Hire_Date	Phone_no	salary	Branch_co	Address	Department_id	Branch_name	State	
52	Irene	11	22	ST_CLERK	SSTILES	4-Mar-04	650.505.3876	2900	110	pune	11	ICIC_P	Maharashtra	а
52	Irene	11	22	ST_CLERK	SSTILES	4-Mar-04	650.505.3876	2900	114	pune	11	ICIC_P	Maharashtra	a

• Write a query to fetch all the details who doesn't belong to mumbai, pune, delhi . [table_name:Bank details]

SELECT * FROM BankDetails WHERE Address NOT IN ('mumbai', 'pune', 'delhi');

Branch_code	Address	Department_id	Branch_name	State
100	Ngapur	1	ICIC_N	Maharashtra
106	Ngapur	1	ICIC_N	Maharashtra
109	Ngapur	8	ICIC_N	Maharashtra
113	Ngapur	11	ICIC_N	Maharashtra
116	Ngapur	16	ICIC_N	Maharashtra

• Find details department name, address, branch code, dept _id,city of the account no 18190.

SELECT d.department_name, b.address, b.branch_code, d.department_id, c.city
FROM departments d

JOIN bankdetails b ON d.department_id = b.department_id JOIN customer c ON b.Branch_code = c.Branch_code WHERE d.account_no = 18190;

department_name	address	branch_code	department_id	city
Security	Pune	120	21	Pune

• Find department id, department name, job id whose only work in Loan, HR, admin.

SELECT d.department_id, d.department_name, j.job_id

FROM departments d

JOIN employees e ON d.department_id = e.department_id

JOIN Job_Details j ON e.job_id = j.job_id

WHERE d.department_name IN ('Loan', 'HR', 'Admin');

department_id	department_name	job_id
8	Loan	ST_CLERK
8	Loan	ST_MAN
8	Loan	FI_ACCOUNT
8	Loan	SA_REP
11	HR	ST_CLERK
11	HR	ST_MAN
11	HR	FI_ACCOUNT
11	HR	SA_REP
16	Admin	ST_CLERK
16	Admin	ST_MAN
16	Admin	FL ACCOUNT

• Find the type_account, state account number whose atm no 422748663.

SELECT c.first_name, A.type_account, A.account_no
FROM Account_Type A

JOIN customer c ON a.account_no = c.account_no

JOIN bankdetails BD ON C.Branch_code = BD.Branch_code

WHERE c. ATM_NO = 422748663;

```
SELECT A.type_account, A.account_no
FROM Account_Type A
WHERE a.account_no = (
SELECT c.account_no
FROM customer c
WHERE c.ATM_NO = 422748663
);

type_account account_no
Saving 22230
```

• Create a view with that show address, branch name, department name, first name. phone no.

CREATE VIEW v1 AS

SELECT BD.address, BD.branch_name, d.department_name, c.first_name, c.phone_no

FROM BankDetails BD JOIN departments d ON BD.department_id = d.department_id JOIN customer c ON BD.Branch_code = c.Branch_code;

SELECT * FROM v1;

		1		
address	branch_name	department_name	first_name	phone_no
Ngapur	ICIC_N	Account	Samuel	650.505.1876
pune	ICIC_P	Account	Allan	650.505.2876
Mumbai	ICIC_M	Account	Irene	650.505.3876
delhi	ICIC_D	Account	Kevin	650.505.4876
Mumbai	ICIC_M	Account	Julia	650.501.1876
delhi	ICIC_D	Account	Donald	650.501.2876
Ngapur	ICIC_N	Account	Christopher	650.501.3876
pune	ICIC_P	Loan	TJ	650.501.4876
Mumbai	ICIC_M	Loan	Lisa	650.507.9811
Ngapur	ICIC_N	Loan	Karen	650.507.9822
pune	ICIC_P	HR	Valli	650.507.9833
Mumbai	ICIC_M	HR	Joshua	650.507.9844
delhi	ICIC_D	HR	Randall	515.123.4444
Ngapur	ICIC_N	HR	Hazel	515.123.5555
pune	ICIC_P	HR	Luis	603.123.6666
Mumbai	ICIC_M	Admin	Trenna	515.123.7777
Ngapur	ICIC_N	Admin	Den	515.123.8888
pune	ICIC_P	Admin	Michael	515.123.8080
Mumbai	ICIC_M	Sales	John	011.44.1346.329268
delhi	ICIC_D	Sales	Nandita	011.44.1346.529268
Pune	ICIC_P	Security	Ismael	011.44.1346.52

• Create view city, department name whose opening date is less than 24 May 04

CREATE VIEW V2 AS

SELECT C.city, d.department_name

FROM DEPARTMENTS d

JOIN Account_Type A ON d.Account_no = A.Account_no

JOIN CUSTOMER C ON A.Account_no = C.Account_no

WHERE A.Opening_Date < '24 May 04';

SELECT * FROM V2;

city	department_name
Ngapur	Account
delhi	Admin

• Create view only job id for clerk, manager, an accountant with all detail and name it employee job_deatils

CREATE VIEW employee_job_details AS

SELECT *

FROM employees

WHERE job_id IN ('ST_CLERK', 'ST_MAN', 'FI_ACCOUNT');

SELECT * FROM employee_job_details;

Employee_id	First_name	Department_id	Manager_id	Job_id	Email	Hire_Date	Phone_no	salary
50	Samuel	1	20	ST_CLERK	SMCCAIN	23-Nov-07	650.505.1876	3800
51	Allan	8	21	ST_CLERK	SSEWALL	30-Jan-04	650.505.2876	3600
52	Irene	11	22	ST_CLERK	SSTILES	4-Mar-04	650.505.3876	2900
53	Kevin	16	23	ST_CLERK	STOBIAS	1-Aug-04	650.505.4876	2500
54	Julia	19	24	ST_CLERK	SVOLLMAN	10-Mar-05	650.501.1876	4000
55	Donald	21	25	ST_CLERK	TFOX	15-Dec-05	650.501.2876	3900
56	Christopher	1	26	ST_CLERK	TGATES	3-Nov-06	650.501.3876	3200
57	TJ	8	27	ST_MAN	TJOLSON	11-Nov-05	650.501.4876	2800
58	Lisa	11	28	ST_MAN	TRAJS	19-Mar-07	650.507.9811	3100
59	Karen	16	29	ST_MAN	VJONES	24-Jan-08	650.507.9822	3000
60	Valli	19	30	ST_MAN	VPATABAL	23-Feb-08	650.507.9833	2600
61	Joshua	21	31	ST_MAN	WGIETZ	1-May-03	650.507.9844	6400
62	Randall	1	32	FI_ACCOUNT	WSMITH	10-Oct-05	515.123.4444	6200
63	Hazel	8	33	FI_ACCOUNT	WTAYLOR	16-Nov-07	515.123.5555	11500
64	Luis	11	34	FI_ACCOUNT	JNAYER	16-Jul-05	603.123.6666	10000
65	Trenna	16	35	FI_ACCOUNT	JPATEL	28-Sep-06	515.123.7777	9600
66	Den	19	36	FI_ACCOUNT	JRUSSEL	14-Jan-07	515.123.8888	7400

• In the Customer table change the atm_no 423295535 with 42321992.

UPDATE customer SET atm_nO = 42321992 WHERE atm_nO = 423295535;

SELECT * FROM CUSTOMER;

Account No	First Name	City	Branch_code	Employee id	Phone no	ATM NO	Exp date	Pin_No
10112	_	Mumbai	102		650.505.3876	423432253	· -	_
12345	Samuel	Ngapur	100	50	650.505.1876	423705689	23-Apr-06	5689
13145	Kevin	delhi	103	53	650.505.4876	42321992	24-Jan-06	15535
15167	Julia	Mumbai	104	54	650.501.1876	423158817	23-Feb-06	18817
18190	Donald	delhi	105	55	650.501.2876	423022099	21-Jun-07	22099
20210	Christopher	Ngapur	106	56	650.501.3876	422885381	3-Feb-08	25381
22230	TJ	pune	107	57	650.501.4876	422748663	27-Jan-04	28663
24250	Lisa	Mumbai	108	58	650.507.9811	422611945	20-Feb-05	31945
26270	Karen	Ngapur	109	59	650.507.9822	422475227	24-Jun-06	35227
28290	Valli	pune	110	60	650.507.9833	422338509	7-Feb-07	38509
30310	Joshua	Mumbai	111	61	650.507.9844	422201791	13-Jan-08	41791
32330	Randall	delhi	112	62	515.123.4444	422065073	17-Sep-03	45073
34350	Hazel	Ngapur	113	63	515.123.5555	421928355	17-Feb-04	48355
36370	Luis	pune	114	64	603.123.6666	421791637	17-Aug-05	51637
38390	Trenna	Mumbai	115	65	515.123.7777	421654919	7-Jun-02	54919
40410	Den	Ngapur	116	66	515.123.8888	421518201	7-Jun-02	58201
42430	Michael	pune	117	67	515.123.8080	421381483	7-Jun-02	61483
44450	John	Mumbai	118	68	011.44.1346.329268	421244765	7-Jun-02	64765
46470	Nandita	delhi	119	69	011.44.1346.529268	421108047	21-Apr-08	68047
48490	Ismael	Pune	120	70	011.44.1346.52	420971329	11-Mar-05	71329
67899	Allan	pune	101	51	650.505.2876	423568971	24-May-07	8971

• In the Account_type table change all sales account into admin.

UPDATE account_type SET type_account = 'ADMIN' WHERE type_account = 'SALES';
SELECT * FROM account_type;

Account_no	Type_Account	Manager_id	Department_name	Opening_Date
10112	Saving	22	HR	4-Jan-06
12345	Saving	20	Account	23-Apr-03
13145	loan	23	Admin	23-Apr-03
15167	current	24	Sales	24-May-04
18190	business	25	Security	4-Jan-06
20210	loan	26	Account	23-Apr-03
22230	Saving	27	Loan	24-May-04
24250	loan	28	HR	4-Jan-06
26270	current	29	Admin	23-Apr-03
28290	business	30	Sales	24-May-04
30310	current	31	Security	4-Jan-06
32330	Saving	32	Account	23-Apr-03
34350	loan	33	Loan	24-May-04
36370	current	34	HR	4-Jan-06
38390	current	35	Admin	23-Apr-03
40410	business	36	Sales	24-May-04
42430	loan	37	Security	4-Jan-06
44450	Saving	38	Account	23-Apr-03
46470	loan	39	Loan	24-May-04
48490	Saving	40	HR	4-Jan-06
67899	loan	21	Loan	24-May-04