



MINI PROJECT

ICIC(MYSQL)



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PIYUSH TIGAONKAR

FIREBLAZE - MINI PROJECT (ICIC)

NAME:- PIYUSH TIGAONKAR

TOPIC:- ICIC(MYSQL)

ASSINGMENT :- MINI PROJECT

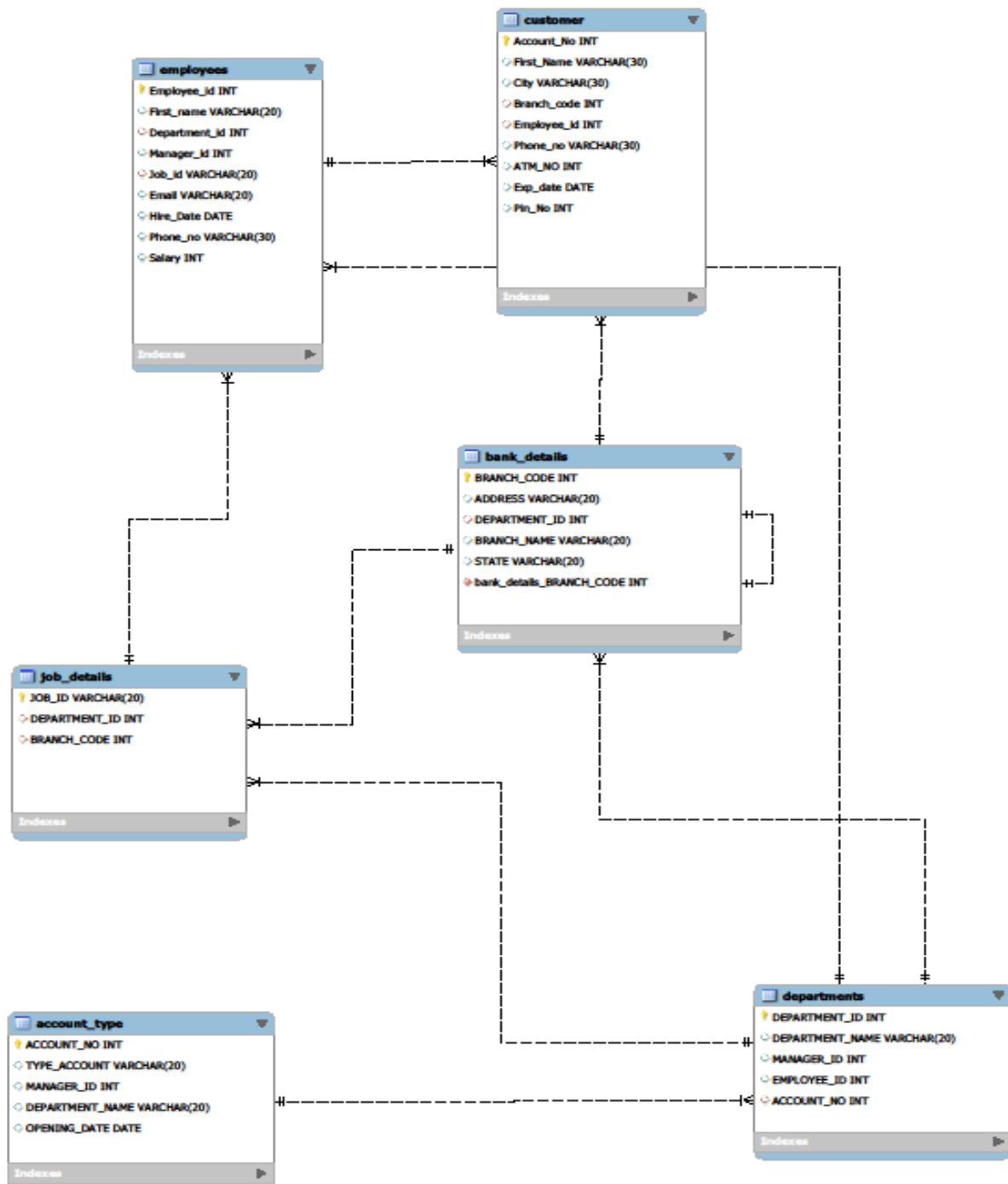
DATE:-06-09-2024

TASK TO DO

- Step 1 Create an ER model of the table.
- Step 2 Create all Table Structure.
- Step 3 Insert Data In The Table.
- Step 4 Solve all the Data Retrieving Problems.

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Step 1 Create an ER model of the table



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Step 2 Create all Table Structure.

1) CREATING DATABASE ICIC AND USING IT:-

```
CREATE DATABASE ICIC;
```

```
USE ICIC;
```

2) CREATING TABLE 1-ACCOUNT_TYPE:-

```
CREATE TABLE ACCOUNT_TYPE
```

```
(ACCOUNT_NO INT PRIMARY KEY,
```

```
TYPE_ACCOUNT VARCHAR(20),
```

```
MANAGER_ID INT,
```

```
DEPARTMENT_NAME VARCHAR(20),
```

```
OPENING_DATE DATE);
```

3) CREATING TABLE 2-DEPARTMENTS:-

```
CREATE TABLE DEPARTMENTS
```

```
(DEPARTMENT_ID INT PRIMARY KEY,
```

```
DEPARTMENT_NAME VARCHAR(20),
```

```
MANAGER_ID INT,
```

```
EMPLOYEE_ID INT,
```

```
ACCOUNT_NO INT,
```

```
FOREIGN KEY(ACCOUNT_NO) REFERENCES ACCOUNT_TYPE(ACCOUNT_NO));
```

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4) CREATING TABLE 3-BANK_DETAILS:-

CREATE TABLE BANK_DETAILS

(BRANCH_CODE INT PRIMARY KEY,

ADDRESS VARCHAR(20),

DEPARTMENT_ID INT,

BRANCH_NAME VARCHAR(20),

STATE VARCHAR(20),

**FOREIGN KEY (DEPARTMENT_ID) REFERENCES
DEPARTMENTS(DEPARTMENT_ID));**

5) CREATING TABLE 4-JOB_DETAILS:-

CREATE TABLE JOB_DETAILS

(JOB_ID VARCHAR(20) PRIMARY KEY,

DEPARTMENT_ID INT,

BRANCH_CODE INT,

**FOREIGN KEY (DEPARTMENT_ID) REFERENCES
DEPARTMENTS(DEPARTMENT_ID),**

FOREIGN KEY (BRANCH_CODE) REFERENCES BANK_DETAILS(BRANCH_CODE));

6) CREATING TABLE 5-EMPLOYEES:-

CREATE TABLE EMPLOYEES

(Employee_id INT PRIMARY KEY,

First_name VARCHAR(20),

Department_id INT,

Manager_id INT,

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Job_id VARCHAR(20),

Email VARCHAR(20),

Hire_Date DATE,

Phone_no VARCHAR(30),

Salary INT,

**FOREIGN KEY (DEPARTMENT_ID) REFERENCES
DEPARTMENTS(DEPARTMENT_ID),**

FOREIGN KEY (JOB_ID) REFERENCES JOB_DETAILS(JOB_ID));

7) CREATING TABLE 6-CUSTOMERS:-

CREATE TABLE CUSTOMER

(Account_No INT PRIMARY KEY,

First_Name VARCHAR(30),

City VARCHAR(30),

Branch_code INT,

Employee_id INT,

Phone_no VARCHAR(30),

ATM_NO INT UNIQUE,

Exp_date DATE,

Pin_No INT UNIQUE,

FOREIGN KEY(BRANCH_CODE) REFERENCES BANK_DETAILS(BRANCH_CODE),

FOREIGN KEY(EMPLOYEE_ID) REFERENCES EMPLOYEES(EMPLOYEE_ID));

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Step 3 Insert Data In The Table.

I HAVE INSERTED DATA THROUGH EXCEL BY CLEANING DATA, MAKING IT MORE COMPATIBLE AND THEN SAVING IT IN CSV FILE AND THEN USING IMPORT FILE OPTION BY CLICKING AT TABLE IN GIVEN SQL WORKBENCH.

WHILE MAKING DATA COMPATIBLE I HAVE MADE SOME CHANGES LIKE FORMATING DATE FORMAT TO THE FORMAT AT WHICH MYSQL WILL IMPORT IN WITHOUT ERROR.

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Step 4 Solve all the Data Retrieving Problems.

1) Find an employee's whose id is 52 and branch name is icicp.

ANS=

```
SELECT E.FIRST_NAME,E.DEPARTMENT_ID,  
B.BRANCH_NAME,E.EMPLOYEE_ID  
FROM EMPLOYEES AS E  
JOIN BANK_DETAILS AS B  
ON B.DEPARTMENT_ID=E.DEPARTMENT_ID  
WHERE E.EMPLOYEE_ID = 52 AND B.BRANCH_NAME='ICIC_P';
```

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

ANS =

```
SELECT *  
FROM BANK_DETAILS  
WHERE ADDRESS NOT IN('MUMBAI','PUNE','DELHI');
```

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

ANS =

```
SELECT D.DEPARTMENT_ID,D.DEPARTMENT_NAME,  
B.ADDRESS,C.City,B.BRANCH_CODE  
FROM departments AS D  
INNER JOIN CUSTOMER AS C  
ON D.ACCOUNT_NO=C.Account_No  
INNER JOIN bank_details AS B  
ON D.DEPARTMENT_ID=B.DEPARTMENT_ID  
WHERE D.ACCOUNT_NO=18190;
```

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

ANS=

```
SELECT D.DEPARTMENT_ID,D.DEPARTMENT_NAME,J.JOB_ID  
FROM DEPARTMENTS AS D  
INNER JOIN JOB_DETAILS AS J  
ON D.DEPARTMENT_ID=J.DEPARTMENT_ID  
WHERE D.DEPARTMENT_NAME IN ('LOAN','HR','ADMIN');
```

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

ANS=

```
SELECT A_T.TYPE_ACCOUNT,B_D.STATE,A_T.ACCOUNT_NO
FROM ACCOUNT_TYPE AS A_T
INNER JOIN CUSTOMER AS C
ON C.ACCOUNT_NO=A_T.ACCOUNT_NO
INNER JOIN BANK_DETAILS AS B_D
ON B_D.BRANCH_CODE=C.BRANCH_CODE
WHERE ATM_NO = 422748663 ;
```

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

ANS=

```
CREATE VIEW VIEW_EMPLOYEE AS
SELECT
B_D.ADDRESS,B_D.BRANCH_NAME,D.DEPARTMENT_NAME,C.FIRST
_NAME,C.PHONE_NO
FROM DEPARTMENTS AS D
INNER JOIN BANK_DETAILS AS B_D
ON B_D.DEPARTMENT_ID=D.DEPARTMENT_ID
```

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INNER JOIN CUSTOMER AS C

ON B_D.BRANCH_CODE=C.BRANCH_CODE;

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

ANS=

CREATE VIEW VIEW_CITY AS

SELECT C.CITY , D.DEPARTMENT_NAME,E.HIRE_DATE

FROM DEPARTMENTS AS D

INNER JOIN EMPLOYEES AS E

ON D.DEPARTMENT_ID=E.DEPARTMENT_ID

INNER JOIN CUSTOMER AS C

ON C.ACCOUNT_NO=D.ACCOUNT_NO

WHERE HIRE_DATE > '2004-05-24';

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

ANS=

CREATE VIEW EMPLOYEE_JOB_DETAILS AS

SELECT

A_T.ACCOUNT_NO ,

A_T.TYPE_ACCOUNT ,

A_T.MANAGER_ID ,

A_T.DEPARTMENT_NAME,

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```
A_T.OPENING_DATE,  
D.DEPARTMENT_ID,  
D.EMPLOYEE_ID,  
B_D.BRANCH_CODE,  
B_D.ADDRESS,  
B_D.BRANCH_NAME,  
B_D.STATE,  
J_D.JOB_ID,  
E.First_name,  
E.Email,  
E.Hire_Date,  
E.Phone_no,  
E.Salary,  
C.ATM_NO,  
C.Exp_date,  
C.Pin_No,  
C.City  
FROM ACCOUNT_TYPE AS A_T  
INNER JOIN DEPARTMENTS AS D  
ON A_T.ACCOUNT_NO=D.ACCOUNT_NO  
INNER JOIN BANK_DETAILS AS B_D  
ON B_D.DEPARTMENT_ID=D.DEPARTMENT_ID  
INNER JOIN JOB_DETAILS AS J_D  
ON J_D.BRANCH_CODE=B_D.BRANCH_CODE  
INNER JOIN EMPLOYEES AS E  
ON E.JOB_ID=J_D.JOB_ID
```

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```
INNER JOIN CUSTOMER AS C
ON E.EMPLOYEE_ID=C.EMPLOYEE_ID
WHERE J_D.JOB_ID IN ('FI_ACCOUNT','ST_CLERK','ST_MAN');
```

9) In the Customer table change the atm_no 423295535 with 42321992.

ANS=

```
UPDATE CUSTOMER
SET ATM_NO =42321992
WHERE ATM_NO =423295535 ;
```

10) In the Account_type table change all sales account into admin

ANS=

```
SET SQL_SAFE_UPDATES=0;

UPDATE ACCOUNT_TYPE
SET DEPARTMENT_NAME = 'ADMIN'
WHERE DEPARTMENT_NAME = 'SALES';
```

-THE END -
