Islamic University Of Technology

CSE-4308
Database Management Systems Lab

Mukit Mahdin
ID: 200042170
Department: Computer Science and Engineering
Program: Software Engineering
Group: B

Creating "ACCOUNT" , "CUSTOMER" and "DEPOSITOR" by DDL Statement

```
CREATE TABLE ACCOUNT
(
    ACCOUNT_NO CHAR(5),
    BALANCE NUMBER NOT NULL,
    CONSTRAINT PK_ACCOUNT PRIMARY KEY(ACCOUNT_NO)
);

CREATE TABLE CUSTOMER
(
    CUSTOMER_NO CHAR(5),
    CUSTOMER_NAME VARCHAR2(20) NOT NULL,
    CUSTOMER_CITY VARCHAR2(10),
    CONSTRAINT PK_CUSTOMER PRIMARY KEY (CUSTOMER_NO)
);

CREATE TABLE DEPOSITOR
(
    ACCOUNT_NO CHAR(5),
    CUSTOMER_NO CHAR(5),
    CONSTRAINT PK_DEPOSITOR PRIMARY KEY(ACCOUNT_NO, CUSTOMER_NO)
);
```

Task-2:

```
   a) ALTER TABLE CUSTOMER ADD DATE_OF_BIRTH DATE;

   b) ALTER TABLE ACCOUNT MODIFY BALANCE NUMBER(12,2);

   c) ALTER TABLE CUSTOMER RENAME COLUMN CUSTOMER_NO TO C_NO;
      ALTER TABLE ACCOUNT RENAME COLUMN ACCOUNT_NO TO A_NO;

   d) RENAME DEPOSITOR TO DEPOSITOR_INFO;

   e) ALTER TABLE DEPOSITOR_INFO
      ADD CONSTRAINT FK_DEPOSITOR_ACCOUNT
      FOREIGN KEY (A_NO) REFERENCES ACCOUNT(A_NO);

      ALTER TABLE DEPOSITOR_INFO
      ADD CONSTRAINT FK_DEPOSITOR_CUSTOMER
      FOREIGN KEY (C_NO) REFERENCES CUSTOMER(C_NO);
```

```
SELECT ACCOUNT_NO
FROM ACCOUNT
WHERE (BALANCE > 100000);



SELECT CUSTOMER_NO
FROM CUSTOMER
WHERE (CUSTOMER_CITY = 'DHK');



SELECT *
FROM CUSTOMER
WHERE CUSTOMER_NAME LIKE 'A%';



SELECT DISTINCT ACCOUNT_NO
FROM DEPOSITOR_INFO;



SELECT *
FROM ACCOUNT, DEPOSITOR_INFO;



SELECT *
FROM CUSTOMER
NATURAL JOIN DEPOSITOR_INFO;



SELECT CUSTOMER_NAME, CUSTOMER_CITY
FROM CUSTOMER, ACCOUNT
WHERE CUSTOMER_NO = ACCOUNT_NO;



SELECT DISTINCT C_NO, CUSTOMER_NAME, CUSTOMER_CITY, DATE_OF_BIRTH
FROM ACCOUNT
NATURAL JOIN DEPOSITOR_INFO NATURAL JOIN CUSTOMER
WHERE ACCOUNT.BALANCE > 1000;



SELECT DISTINCT A_NO, BALANCE
FROM ACCOUNT NATURAL JOIN DEPOSITOR_INFO NATURAL JOIN CUSTOMER
WHERE ACCOUNT.BALANCE > 5000 AND ACCOUNT.BALANCE < 100000;
```