Hackathon SQL

**Problem 1 .Write SQL queries for (i) to (v) and find outputs for SQL queries (vi) to (ix), which are based on the tables.**

**SQL File For DATABASE :** [**Tables**](https://drive.google.com/drive/folders/1Fc6IWsFSBPK0vooOoZe-nSh-9b7XBDnG?usp=sharing)

**TABLE : ACCOUNT**

| **ANO** | **ANAME** | **ADDRESS** |
| --- | --- | --- |
| 101 | Nirja Singh | Bangalore |
| 102 | Rohan Gupta | Chennai |
| 103 | Ali Reza | Hyderabad |
| 104 | Rishabh jain | Chennai |
| 105 | Simran Kaur | Chandigarh |

**TABLE : TRANSACT**

| **TRNO** | **ANO** | **AMOUNT** | **TYPE** | **DOT** |
| --- | --- | --- | --- | --- |
| T001 | 101 | 2500 | Withdraw | 2017-12-21 |
| T002 | 103 | 3000 | Deposit | 2017-06-01 |
| T003 | 102 | 2000 | Withdraw | 2017-05-12 |
| T004 | 103 | 1000 | Deposit | 2017-10-22 |
| T005 | 101 | 12000 | Deposit | 2017-11-06 |

1. To display details of all transactions of TYPE Deposit from Table TRANSACT.
2. To display the ANO and AMOUNT of all Deposits and Withdrawals done in the month of October 2017 from table TRANSACT.
3. SELECT ANO,AMOUNT FROM TRANSACT  
   WHERE DOT BETWEEN ‘2017-10-01’ AND ‘2017-10-31 ‘ ;
4. To display the last date of transaction (DOT) from the table TRANSACT for the Accounts having ANO as 103.
5. To display all ANO, ANAME and DOT of those persons from tables ACCOUNT and TRANSACT who have done transactions less than or equal to 3000.
6. SELECT ANO, ANAME FROM ACCOUNT  
   WHERE ADDRESS NOT IN (‘CHENNAI’, ‘BANGALORE’);
7. SELECT DISTINCT ANO FROM TRANSACT;
8. SELECT ANO, COUNT(\*), MIN(AMOUNT) FROM TRANSACT  
   GROUP BY ANO HAVING COUNT(\*)> 1;
9. SELECT COUNT(\*), SUM(AMOUNT) FROM TRANSACT  
   WHERE DOT <= ‘2017-06-01’;

**Answers:**

**Create table ACCOUNT**

**( ANO integer Primary key,**

**ANAME varchar(50),**

**ADDRESS varchar(50)**

**);**

**INSERT INTO ACCOUNT VALUES(101,'Nirja Singh','Banglore');**

**INSERT INTO ACCOUNT VALUES(102,'Rohan Gupta','Chennai');**

**INSERT INTO ACCOUNT VALUES(103,'Ali Reza','Hyderabad');**

**INSERT INTO ACCOUNT VALUES(104,'Rishabh Jain','Chennai');**

**INSERT INTO ACCOUNT VALUES(105,'Nirja Singh','Chandigarh');**

**create table TRANSACT**

**(TRNO Varchar(50),**

**ANO integer Primary key,**

**AMOUNT integer,**

**TYPE varchar(50),**

**DOT varchar(50)**

**);**

**insert into TRANSACT values('T001',101,2500,'Withdraw','2017-12-21');**

**insert into TRANSACT values('T002',102,3000,'Deposti','2017-06-01');**

**insert into TRANSACT values('T003',103,2000,'Withdraw','2017-06-01');**

**insert into TRANSACT values('T004',104,1000,'Deposit','2017-10-22');**

**insert into TRANSACT values('T005',105,12000,'Depost','2017-11-06');**

1. **Select TYPE from TRANSACT; correct**

1. **select ANO, AMOUNT from TRANSACT**

**where DOT='2017-10-22'; Correct**

1. **ANO AMOUNT**

**104 1000 Correct**

1. **select DOT from TRANSACT**

**where ANO=103; Correct**

1. **select ANO,'ANAME’, DOT from TRANSACT**

**where AMOUNT<=3000; Correct**

**6.**

| **ANO** | **ANAME** |
| --- | --- |
| **103** | **Ali Reza** |
| **105** | **Nirja Singh** |

**correct**

**7.**

| **ANO** |
| --- |
| **101** |
| **102** |
| **103** |
| **104** |
| **105** |

**Correct**

**8.no data found**

**Incorrect**

**9.**

| **COUNT(\*)** | **SUM(AMOUNT)** |
| --- | --- |
| **2** | **5000** |

**Correct**