Assignment 2 CS 1103

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Part A:

```
CREATE TABLE types (
    transact type INT(1) UNSIGNED NOT NULL PRIMARY KEY,
    transact nature VARCHAR(10) NOT NULL);
CREATE TABLE accounti(
     account num INT UNSIGNED NOT NULL PRIMARY KEY,
      acc owner VARCHAR (50) NOT NULL ,
      date opened DATETIME NOT NULL );
CREATE TABLE records (
id int unsigned NOT NULL,
date time DATETIME NOT NULL,
amount FLOAT (11) UNSIGNED NOT NULL,
transact type INT(1) UNSIGNED NOT NULL,
account num INT UNSIGNED NOT NULL,
PRIMARY KEY (id),
FOREIGN KEY (transact type)
     REFERENCES types (transact type),
FOREIGN KEY (account num)
     REFERENCES accounti(account num));
Part B:
INSERT INTO accounti values(11001, 'Andrew', '2021-08-10');
INSERT INTO accounti values(22002, 'Molly', '2021-08-11');
INSERT INTO accounti values(33003, NULL, '2021-08-11');
INSERT INTO types VALUES(1, 'deposit');
INSERT INTO types VALUES(2, 'withdrawl');
INSERT INTO records VALUES(1,'2021-09-01 8:30',500.00,1,11001);
INSERT INTO records VALUES(2,'2021-09-01 8:31',300.00,1,22002);
INSERT INTO records VALUES(3,'2021-09-01 17:00',100.00,2,11001);
INSERT INTO records VALUES (4, '2021-09-01 17:01', 100.00, 1, 22002);
```

Part C:

```
SELECT * FROM records;
SELECT * FROM accounti;
SELECT * FROM types;
```

id	9	date_time	amount	transact_type 💡	account_num 💡
	1	2021-09-01 08:30:00	500,00	1	11 001
	2	2021-09-01 08:31:00	300,00	1	22 002
	3	2021-09-01 17:00:00	100,00	2	11 001
	4	2021-09-01 17:01:00	100,00	1	22 002

account_num	T	acc_owner	date_opened
11	001	Andrew	2021-08-10
22	002	Molly	2021-08-11
33	003	(NULL)	2021-08-11

5 2021-09-01 08:30:00

Part D:

```
1)
    INSERT INTO types VALUES(1, 'Adjustment')
    SQL Error (1062): Duplicate entry '1' for key 'PRIMARY'uery

2)
    INSERT INTO records VALUES(4, '2021-09-01 8:30', 500.00, 1, 11005);
    SQL Error (1452): Cannot add or update a child row: a foreign key constraint fails
    ('bank'.'records', CONSTRAINT 'records_ibfk_2' FOREIGN KEY ('account_num') REFERENCES
    'accounti' ('account_num'))uery

3)
INSERT INTO records VALUES(5, '2021-09-01 8:30', -500.00, 1, 11001);
```

-500,00

1

11 001