

FIT9132 Assignment 2A Grading

```
SQL> ===== START RUN =====
SQL> -- Running mlib_initialSchemaInsert.sql
SQL> set echo off
SQL> ----- Task 1.1 Create Tables -----
SQL> @T1-ml-schm.sql
SQL> --****PLEASE ENTER YOUR DETAILS BELOW****
SQL> --T3-ml-alter.sql
SQL>
SQL> --Student ID: 30874157
SQL> --Student Name:Rui Qin
SQL> --Tutorial No: 02
SQL>
SQL> /* Comments for your marker:
SQL>
SQL>
SQL>
SQL> */
SQL>
SQL> CREATE TABLE book_copy (
  2     branch_code      NUMBER(2) NOT NULL,
  3     bc_id            NUMBER(6) NOT NULL,
  4     bc_purchase_price NUMBER(7, 2) NOT NULL,
  5     bc_counter_reserve CHAR(1) NOT NULL,
  6     book_call_no      VARCHAR2(20) NOT NULL,
  7     CONSTRAINT book_copy_pk PRIMARY KEY ( bc_id,
  8                                           branch_code ),
  9     CONSTRAINT bc_counter_reserve_chk CHECK ( bc_counter_reserve IN ( 'Y', 'N' ) )
10 );

Table BOOK_COPY created.

SQL> COMMENT ON COLUMN book_copy.branch_code IS
  2     'Branch number ';

Comment created.

SQL>
SQL> COMMENT ON COLUMN book_copy.bc_id IS
  2     'book copy identifier';

Comment created.

SQL>
SQL> COMMENT ON COLUMN book_copy.bc_purchase_price IS
  2     'Purchase price for this copy';

Comment created.

SQL>
SQL> COMMENT ON COLUMN book_copy.bc_counter_reserve IS
  2     'Flag to indicate if on Counter Reserve or not (Y/N)';

Comment created.

SQL>
```

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```
SQL> COMMENT ON COLUMN book_copy.book_call_no IS
2      'Books call number - identifies a book';
```

Comment created.

```
SQL>
SQL> -- LOAN
SQL> CREATE TABLE loan (
2      branch_code          NUMBER(2) NOT NULL,
3      bc_id                NUMBER(6) NOT NULL,
4      loan_date_time       DATE NOT NULL,
5      loan_due_date        DATE NOT NULL,
6      loan_actual_return_date DATE,
7      bor_no               NUMBER(6) NOT NULL,
8      CONSTRAINT loan_pk PRIMARY KEY ( loan_date_time,
9                                      bc_id, ✓
10                                     branch_code )
11 );
```

Table LOAN created.

```
SQL>
SQL> COMMENT ON COLUMN loan.branch_code IS
2      'Branch number ';
```

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN loan.bc_id IS
2      'Book copy id unique within the branch which owns this book copy';
```

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN loan.loan_date_time IS
2      'Date and time loan taken out';
```

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN loan.loan_due_date IS
2      'Date loan due ';
```

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN loan.loan_actual_return_date IS
2      'Actual date loan returned';
```

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN loan.bor_no IS
2      'Borrower identifier';
```

Comment created.

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```
SQL>
SQL>
SQL> -- RESERVE
SQL> CREATE TABLE reserve (
2     reserve_id            NUMBER(6) NOT NULL,
3     branch_code          NUMBER(2) NOT NULL,
4     bc_id                NUMBER(6) NOT NULL,
5     reserve_date_time_placed DATE NOT NULL,
6     bor_no               NUMBER(6) NOT NULL,
7     CONSTRAINT reserve_pk PRIMARY KEY ( reserve_id )✓
8     CONSTRAINT reserve_uq UNIQUE ( branch_code,
9                                   bc_id,
10                                reserve_date_time_placed )✓
11 );
```

Table RESERVE created.

```
SQL> COMMENT ON COLUMN reserve.reserve_id IS
2     'Reservation number (unique across all branches)';
```

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN reserve.branch_code IS
2     'Branch number ';
```

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN reserve.bc_id IS
2     'Book copy id unique within the branch which owns this book copy';
```

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN reserve.reserve_date_time_placed IS
2     'Reservation number (unique across all branches)';
```

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN reserve.bor_no IS
2     'Borrower identifier';
```

Comment created.

```
SQL>
SQL> -- Add all missing FK Constraints below here
SQL>
SQL>
SQL> -- BOOK_COPY
SQL> ALTER TABLE book_copy
2     ADD CONSTRAINT book_detail_book_copy FOREIGN KEY ( book_call_no )
3     REFERENCES book_detail ( book_call_no )✓
```

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Table BOOK_COPY altered.

```
SQL>
SQL> ALTER TABLE book_copy
  2     ADD CONSTRAINT branch_book_copy FOREIGN KEY ( branch_code )
  3     REFERENCES branch ( branch_code )✓
```

Table BOOK_COPY altered.

```
SQL>
SQL>
SQL> -- LOAN
SQL> ALTER TABLE loan
  2     ADD CONSTRAINT book_copy_loan FOREIGN KEY ( bc_id,
  3                                           branch_code )
  4     REFERENCES book_copy ( bc_id,
  5                             branch_code )✓;
```

Table LOAN altered.

```
SQL>
SQL> ALTER TABLE loan
  2     ADD CONSTRAINT borrower_loan FOREIGN KEY ( bor_no )
  3     REFERENCES borrower ( bor_no )✓
```

Table LOAN altered.

```
SQL>
SQL>
SQL> -- RESERVE
SQL> ALTER TABLE reserve
  2     ADD CONSTRAINT borrower_reserve FOREIGN KEY ( bor_no )
  3     REFERENCES borrower ( bor_no )✓;
```

Table RESERVE altered.

```
SQL>
SQL> ALTER TABLE reserve
  2     ADD CONSTRAINT book_copy_reserve FOREIGN KEY ( bc_id,
  3                                           branch_code )
  4     REFERENCES book_copy ( bc_id,
  5                             branch_code )✓;
```

Table RESERVE altered.

```
SQL>
SQL> COMMIT;
```

Commit complete.

```
SQL>
SQL> ----- BOOK_COPY -----
SQL> describe BOOK_COPY
Name          Null?      Type
-----
BRANCH_CODE    NOT NULL  NUMBER(2)
```

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```

BC_ID          NOT NULL NUMBER(6)
BC_PURCHASE_PRICE NOT NULL NUMBER(7,2) ✓
BC_COUNTER_RESERVE NOT NULL CHAR(1)
BOOK_CALL_NO   NOT NULL VARCHAR2(20)
SQL> -----
SQL> describe LOAN

```

```

Name          Null?    Type
-----
BRANCH_CODE   NOT NULL NUMBER(2)
BC_ID         NOT NULL NUMBER(6) ✓
LOAN_DATE_TIME NOT NULL DATE
LOAN_DUE_DATE NOT NULL DATE
LOAN_ACTUAL_RETURN_DATE DATE
BOR_NO        NOT NULL NUMBER(6)

```

```

SQL> ----- RESERVE -----
SQL> describe RESERVE

```

```

Name          Null?    Type
-----
RESERVE_ID    NOT NULL NUMBER(6)
BRANCH_CODE   NOT NULL NUMBER(2) ✓
BC_ID         NOT NULL NUMBER(6)
RESERVE_DATE_TIME_PLACED NOT NULL DATE
BOR_NO        NOT NULL NUMBER(6)

```

```

SQL>
SQL> ----- CONSTRAINTS DECLARED -----
SQL> set echo off

```

CONSTRAINT_NAME	CONSTRAINT_	TABLE_NAME	SEARCH_CONDITION
BOOK_COPY_PK	Primary Key	BOOK_COPY	
BRANCH_BOOK_COPY	Foreign Key	BOOK_COPY	
BOOK_DETAIL_BOOK_COPY	Foreign Key	BOOK_COPY	
SYS_C00340055	Check	BOOK_COPY	"BC_COUNTER_RESERVE" IS NOT NULL
BC_COUNTER_RESERVE_CHK	Check	BOOK_COPY	bc_counter_reserve IN ('Y', 'N')
SYS_C00340054	Check	BOOK_COPY	"BC_PURCHASE_PRICE" IS NOT NULL
SYS_C00340053	Check	BOOK_COPY	"BC_ID" IS NOT NULL
SYS_C00340052	Check	BOOK_COPY	"BRANCH_CODE" IS NOT NULL
SYS_C00340056	Check	BOOK_COPY	"BOOK_CALL_NO" IS NOT NULL
LOAN_PK	Primary Key	LOAN	
BORROWER_LOAN	Foreign Key	LOAN	
BOOK_COPY_LOAN	Foreign Key	LOAN	
SYS_C00340062	Check	LOAN	"LOAN_DUE_DATE" IS NOT NULL
SYS_C00340061	Check	LOAN	"LOAN_DATE_TIME" IS NOT NULL
SYS_C00340060	Check	LOAN	"BC_ID" IS NOT NULL
SYS_C00340059	Check	LOAN	"BRANCH_CODE" IS NOT NULL
SYS_C00340063	Check	LOAN	"BOR_NO" IS NOT NULL
RESERVE_UQ	Unique	RESERVE	
RESERVE_PK	Primary Key	RESERVE	
BOOK_COPY_RESERVE	Foreign Key	RESERVE	
BORROWER_RESERVE	Foreign Key	RESERVE	
SYS_C00340068	Check	RESERVE	"RESERVE_DATE_TIME_PLACED" IS NOT NULL
SYS_C00340067	Check	RESERVE	"BC_ID" IS NOT NULL
SYS_C00340066	Check	RESERVE	"BRANCH_CODE" IS NOT NULL
SYS_C00340065	Check	RESERVE	"RESERVE_ID" IS NOT NULL
SYS_C00340069	Check	RESERVE	"BOR_NO" IS NOT NULL

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26 rows selected.

```
SQL>
SQL> ----- Task 2 Load Student Data -----
SQL> @T2-ml-insert.sql
SQL> --****PLEASE ENTER YOUR DETAILS BELOW****
SQL> --T2-ml-insert.sql
SQL>
SQL> --Student ID: 30874157
SQL> --Student Name:Rui Qin
SQL> --Tutorial No: 02
SQL>
SQL> /* Comments for your marker:
SQL>
SQL>
SQL>
SQL>*/
SQL>
SQL> -- 2 (a) Load the BOOK_COPY, LOAN and RESERVE tables with your own
SQL> -- test data following the data requirements expressed in the brief
SQL> -- BOOK_COPY
SQL> INSERT INTO book_copy VALUES (
  2      10,
  3      10,
  4      27.20,
  5      'Y',
  6      '005.74 D691D'
  7  );
```

1 row inserted.

```
SQL> INSERT INTO book_copy VALUES (
  2      10,
  3      17,
  4      45.20,
  5      'N',
  6      '005.756 G476F'
  7  );
```

1 row inserted.

```
SQL> INSERT INTO book_copy VALUES (
  2      10,
  3      18,
  4      23.40,
  5      'N',
  6      '005.432 L761P'
  7  );
```

1 row inserted.

```
SQL> INSERT INTO book_copy VALUES (
  2      11,
  3      11,
  4      12.90,
```

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```
5      'Y',
6      '005.756 G476F'
7  );
```

1 row inserted.

```
SQL> INSERT INTO book_copy VALUES (
2      11,
3      16,
4      45.20,
5      'N',
6      '005.432 L761P'
7  );
```

1 row inserted.

```
SQL>
SQL> INSERT INTO book_copy VALUES (
2      11,
3      19,
4      23.08,
5      'N',
6      '823.914 A211H'
7  );
```

1 row inserted.

```
SQL> INSERT INTO book_copy VALUES (
2      12,
3      12,
4      58.20,
5      'N',
6      '112.6 S874D'
7  );
```

1 row inserted.

```
SQL> INSERT INTO book_copy VALUES (
2      12,
3      15,
4      100.20,
5      'N',
6      '823.914 H219A'
7  );
```

1 row inserted.

```
SQL> INSERT INTO book_copy VALUES (
2      13,
3      13,
4      45.20,
5      'N',
6      '005.432 L761P'
7  );
```

1 row inserted.

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```
SQL> INSERT INTO book_copy VALUES (  
2      13,  
3      14,  
4      23.08,  
5      'N',  
6      '823.914 A211H'  
7  );
```

1 row inserted.

```
SQL>  
SQL> --update counter of book in branch  
SQL> --Clayton  
SQL> UPDATE branch  
2  SET  
3      branch_count_books = (  
4          SELECT  
5              branch_count_books  
6          FROM  
7              branch  
8          WHERE  
9              branch_contact_no = '0395413120'  
10     ) + 3  
11 WHERE  
12     branch_code = (  
13         SELECT  
14             branch_code  
15         FROM  
16             branch  
17         WHERE  
18             branch_contact_no = '0395413120'  
19     );
```

1 row updated.

```
SQL> --Glen Waverley  
SQL> UPDATE branch  
2  SET  
3      branch_count_books = (  
4          SELECT  
5              branch_count_books  
6          FROM  
7              branch  
8          WHERE  
9              branch_contact_no = '0395601655'  
10     ) + 3  
11 WHERE  
12     branch_code = (  
13         SELECT  
14             branch_code  
15         FROM  
16             branch  
17         WHERE  
18             branch_contact_no = '0395601655'  
19     );
```


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1 row updated.

```
SQL> --Mount Waverley
SQL> UPDATE branch
  2 SET
  3     branch_count_books = (
  4         SELECT
  5             branch_count_books
  6         FROM
  7             branch
  8         WHERE
  9             branch_contact_no = '0398075022'
 10     ) + 2
 11 WHERE
 12     branch_code = (
 13         SELECT
 14             branch_code
 15         FROM
 16             branch
 17         WHERE
 18             branch_contact_no = '0398075022'
 19     );
```

1 row updated.

```
SQL> --Mulgrave
SQL> UPDATE branch
  2 SET
  3     branch_count_books = (
  4         SELECT
  5             branch_count_books
  6         FROM
  7             branch
  8         WHERE
  9             branch_contact_no = '0395461253'
 10     ) + 2
 11 WHERE
 12     branch_code = (
 13         SELECT
 14             branch_code
 15         FROM
 16             branch
 17         WHERE
 18             branch_contact_no = '0395461253'
 19     );
```

1 row updated.

```
SQL>
SQL>
SQL> -- LOAN
SQL> INSERT INTO loan VALUES (
  2     11,
  3     19,
  4     TO_DATE('2021/08/03', 'yyyy/mm/dd'), ✗ Missing time for loan_date_time
```

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```
5      TO_DATE('2021/08/17', 'yyyy/mm/dd'),
6      TO_DATE('2021/08/21', 'yyyy/mm/dd'),
7      1
8  );
```

1 row inserted.

```
SQL> INSERT INTO loan VALUES (
2      11,
3      16,
4      TO_DATE('2021/08/03', 'yyyy/mm/dd'),
5      TO_DATE('2021/08/17', 'yyyy/mm/dd'),
6      TO_DATE('2021/08/14', 'yyyy/mm/dd'),
7      1
8  );
```

1 row inserted.

```
SQL> INSERT INTO loan VALUES (
2      10,
3      18,
4      TO_DATE('2021/08/01', 'yyyy/mm/dd'),
5      TO_DATE('2021/08/15', 'yyyy/mm/dd'),
6      TO_DATE('2021/08/04', 'yyyy/mm/dd'),
7      2
8  );
```

1 row inserted.

```
SQL> INSERT INTO loan VALUES (
2      12,
3      12,
4      TO_DATE('2021/08/01', 'yyyy/mm/dd'),
5      TO_DATE('2021/08/15', 'yyyy/mm/dd'),
6      TO_DATE('2021/08/04', 'yyyy/mm/dd'),
7      2
8  );
```

1 row inserted.

```
SQL> INSERT INTO loan VALUES (
2      12,
3      15,
4      TO_DATE('2021/08/01', 'yyyy/mm/dd'),
5      TO_DATE('2021/08/15', 'yyyy/mm/dd'),
6      TO_DATE('2021/08/07', 'yyyy/mm/dd'),
7      2
8  );
```

1 row inserted.

```
SQL> INSERT INTO loan VALUES (
2      10,
3      10,
4      TO_DATE('2021/08/04', 'yyyy/mm/dd'),
5      TO_DATE('2021/08/18', 'yyyy/mm/dd'),
```

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```
6      TO_DATE('2021/08/12', 'yyyy/mm/dd'),
7      3
8  );
```

1 row inserted.

```
SQL> INSERT INTO loan VALUES (
2      13,
3      13,
4      TO_DATE('2021/08/04', 'yyyy/mm/dd'),
5      TO_DATE('2021/08/18', 'yyyy/mm/dd'),
6      TO_DATE('2021/08/12', 'yyyy/mm/dd'),
7      3
8  );
```

1 row inserted.

```
SQL> INSERT INTO loan VALUES (
2      11,
3      11,
4      TO_DATE('2021/08/04', 'yyyy/mm/dd'),
5      TO_DATE('2021/08/18', 'yyyy/mm/dd'),
6      TO_DATE('2021/08/12', 'yyyy/mm/dd'),
7      3
8  );
```

1 row inserted.

```
SQL> -- RESERVE
SQL> INSERT INTO reserve VALUES (
2      10,
3      12,
4      12,
5      TO_DATE('2021/08/29 16:00:00', 'yyyy/mm/dd hh24:mi:ss'),
6      5
7  );
```

1 row inserted.

```
SQL> INSERT INTO reserve VALUES (
2      11,
3      13,
4      13,
5      TO_DATE('2021/08/30 16:00:00', 'yyyy/mm/dd hh24:mi:ss'),
6      1
7  );
```

1 row inserted.

```
SQL> COMMIT;
```

Commit complete.

```
SQL>
SQL> -- Check INSERT Count
SQL> -----
```

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SQL> set echo off

Table Loaded COUNT(*)

1. BOOK_COPY Rows: 10
 2. LOAN Rows: 8 Did not meet the minimum requirements(10)
 3. RESERVE Rows: 2

BRANCH_CODE	BC_ID	BC_PURCHASE_PRICE	B	BOOK_CALL_NO
10	10	27.2	Y	005.74 D691D
10	17	45.2	N	005.756 G476F
10	18	23.4	N	005.432 L761P
11	11	12.9	Y	005.756 G476F
11	16	45.2	N	005.432 L761P
11	19	23.08	N	823.914 A211H
12	12	58.2	N	112.6 S874D
12	15	100.2	N	823.914 H219A
13	13	45.2	N	005.432 L761P
13	14	23.08	N	823.914 A211H

10 rows selected.

BRANCH_CODE	BC_ID	LOAN_DATE_TIME	LOAN_DUE_DATE	LOAN_ACTUAL_RETURN_D	BOR_NO
11	19	03-AUG-2021 00:00:00	17-AUG-2021	21-AUG-2021	1
11	16	03-AUG-2021 00:00:00	17-AUG-2021	14-AUG-2021	1
10	18	01-AUG-2021 00:00:00	15-AUG-2021	04-AUG-2021	2
12	12	01-AUG-2021 00:00:00	15-AUG-2021	04-AUG-2021	2
12	15	01-AUG-2021 00:00:00	15-AUG-2021	07-AUG-2021	2
10	10	04-AUG-2021 00:00:00	18-AUG-2021	12-AUG-2021	3
13	13	04-AUG-2021 00:00:00	18-AUG-2021	12-AUG-2021	3
11	11	04-AUG-2021 00:00:00	18-AUG-2021	12-AUG-2021	3

8 rows selected.

RESERVE_ID	BRANCH_CODE	BC_ID	RESERVE_DATE_TIME_PLACED	BOR_NO
10	12	12	29-AUG-2021 16:00:00	5
11	13	13	30-AUG-2021 16:00:00	1

SQL> -- EXPLICIT checks

SQL> --

SQL> -- Check INSERT Data

SQL> -----

SQL> set echo off

SQL> -- BOOK COPY

SQL> set echo off

BOOK_DETAILS COUNT

1. Book details used 6
 2. Libraries assigned book copies 4

✗ Libraries NOT holding multiple copies of a book

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4. Book copies on counter reserve

2

```
SQL> -- CHECK branch count of books updated when book copies inserted
SQL> set echo off
```

BRANCH_CODE	BOOKCOPYCOUNT	BRANCH_COUNT_BOOKS	COUNTDIFF
10	3	3	0
11	3	3	0
12	2	2	0
13	2	2	0

```
SQL> -- LOAN
SQL> -- Loan period not 14 day
SQL> -- Each book copy can be loaned for 14 days and then must be renewed to avoid a fine.
SQL> -- For example, a book borrowed on the 2nd August 2021 at 10:00 AM will be due on the
SQL> -- 16th August 2021.
SQL> set echo off
no rows selected
```

LOAN_DETAILS	COUNT
1. Loans dates incorrect - due/returned before out	0
2. Loans completed	8
3. Loans returned late	1
4. Loans still due	0
5. Branches involved in a loan	4
6. Borrowers involved in a loan	3

Minimum 1 NEEDED

6 rows selected.

```
SQL> -- Reserves placed on a book which is on the shelf ie. not currently or never borrowed
SQL> -- (should not occur) Count should be 0
SQL> set echo off
```

```
ReservedBookIsOnShelf
-----
0
```

```
SQL> -- Reserve placed on book on counter reserve
SQL> -- (should not occur) Count should be 0
SQL> set echo off
```

```
CounterReserveUsedForReserve
-----
0
```

```
SQL> -- Date range used
SQL> set echo off
```

DATES_USED	COUNT
1. Invalid Loan dates used	0
2. Invalid reserve dates used	0

```
SQL> ----- Task 1.2 Drop Tables -----
```

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```
SQL> @T1-ml-drop.sql
SQL> --****PLEASE ENTER YOUR DETAILS BELOW****
SQL> --T1-ml-drop.sql
SQL>
SQL> --Student ID: 30874157
SQL> --Student Name:Rui Qin
SQL> --Tutorial No: 02
SQL>
SQL> /* Comments for your marker:
SQL>
SQL>
SQL>
SQL>
SQL>*/
SQL>
SQL> -- 1.2 Add Drop table statements for ALL table below (not just those created
SQL> -- in this script)use ONLY
SQL> --      DROP TABLE tblname PURGE
SQL> -- syntax DO NOT use CASCADE CONSTRAINTS
SQL>
SQL> ALTER TABLE borrower
   2      DROP CONSTRAINT branch_borr;

Table BORROWER altered.

SQL>
SQL> ALTER TABLE branch
   2      DROP CONSTRAINT branch_contact_no_uq;

Table BRANCH altered.

SQL>
SQL> ALTER TABLE book_copy
   2      DROP CONSTRAINT book_detail_book_copy;

Table BOOK_COPY altered.

SQL>
SQL> ALTER TABLE book_copy
   2      DROP CONSTRAINT branch_book_copy;

Table BOOK_COPY altered.

SQL>
SQL> ALTER TABLE loan
   2      DROP CONSTRAINT book_copy_loan;

Table LOAN altered.

SQL>
SQL> ALTER TABLE loan
   2      DROP CONSTRAINT borrower_loan;

Table LOAN altered.

SQL>
```

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```
SQL> ALTER TABLE reserve
      2      DROP CONSTRAINT reserve_uq;
```

Table RESERVE altered.

```
SQL>
SQL> ALTER TABLE reserve
      2      DROP CONSTRAINT borrower_reserve;
```

Table RESERVE altered.

```
SQL>
SQL> ALTER TABLE reserve
      2      DROP CONSTRAINT book_copy_reserve;
```

Table RESERVE altered.

```
SQL>
SQL> ALTER TABLE loan
      2      DROP CONSTRAINT loan_branch;
```

Error starting at line : 47 File @ /Users/shiringhaffarianmaghool/Monash/Ass2A/FIT2094/T-02 Shirin/Marking/Qin Rui_14522358_assignsubmission_file_/T1-

In command -

```
ALTER TABLE loan
      DROP CONSTRAINT loan_branch
```

Error report -

ORA-02443: Cannot drop constraint - nonexistent constraint

02443. 00000 - "Cannot drop constraint - nonexistent constraint"

*Cause: alter table drop constraint <constraint_name>

*Action: make sure you supply correct constraint name.

SQL>

```
SQL> DROP TABLE book_copy PURGE;
```

Table BOOK_COPY dropped.

```
SQL>
SQL> DROP TABLE book_detail PURGE;
```

Table BOOK_DETAIL dropped.

```
SQL>
SQL> DROP TABLE loan PURGE;
```

Table LOAN dropped.

```
SQL>
SQL> DROP TABLE reserve PURGE;
```

Table RESERVE dropped.

```
SQL>
SQL> DROP TABLE borrower PURGE;
```

Table BORROWER dropped.

SQL>

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```
SQL> -- Drop the manager_type is for the T3 new table
SQL> -- which relate with manager and branch
SQL>
SQL> ALTER TABLE manager_type
  2     DROP CONSTRAINT manager_type_branch;
```

```
Error starting at line : 63 File @ /Users/shiringhaffarianmaghool/Monash/Ass2A/FIT2094/T-02 Shirin/Marking/Qin Rui_14522358_assignsubmission_file_/T1-
In command -
ALTER TABLE manager_type
  DROP CONSTRAINT manager_type_branch
Error report -
ORA-00942: table or view does not exist
00942. 00000 - "table or view does not exist"
*Cause:
*Action:
SQL>
SQL> ALTER TABLE manager_type
  2     DROP CONSTRAINT manager_type_manager;
```

```
Error starting at line : 66 File @ /Users/shiringhaffarianmaghool/Monash/Ass2A/FIT2094/T-02 Shirin/Marking/Qin Rui_14522358_assignsubmission_file_/T1-
In command -
ALTER TABLE manager_type
  DROP CONSTRAINT manager_type_manager
Error report -
ORA-00942: table or view does not exist
00942. 00000 - "table or view does not exist"
*Cause:
*Action:
SQL>
SQL> DROP TABLE manager_type PURGE;
```

```
Error starting at line : 69 File @ /Users/shiringhaffarianmaghool/Monash/Ass2A/FIT2094/T-02 Shirin/Marking/Qin Rui_14522358_assignsubmission_file_/T1-
In command -
DROP TABLE manager_type PURGE
Error report -
ORA-00942: table or view does not exist
00942. 00000 - "table or view does not exist"
*Cause:
*Action:
SQL>
SQL> DROP TABLE manager PURGE;
```

```
Error starting at line : 71 File @ /Users/shiringhaffarianmaghool/Monash/Ass2A/FIT2094/T-02 Shirin/Marking/Qin Rui_14522358_assignsubmission_file_/T1-
In command -
DROP TABLE manager PURGE
Error report -
ORA-02449: unique/primary keys in table referenced by foreign keys
02449. 00000 - "unique/primary keys in table referenced by foreign keys"
*Cause:      An attempt was made to drop a table with unique or
              primary keys referenced by foreign keys in another table.
*Action:     Before performing the above operations the table, drop the
              foreign key constraints in other tables. You can see what
              constraints are referencing a table by issuing the following
              command:
              SELECT * FROM USER_CONSTRAINTS WHERE TABLE_NAME = "tabnam";

SQL>
```


FIT9132 Assignment 2A Grading

```
SQL> DROP TABLE branch PURGE;
```

```
Table BRANCH dropped.
```

```
SQL>
```

```
SQL> COMMIT;
```

```
Commit complete. ✗ Commit NOT used appropriately ( No Need for DDL)
```

```
SQL>
```

```
SQL> set echo off
```

```
TABLES_REMAINING
```

```
-----
```

❏ ✗ Incorrect order of dropping

```
SQL> ----- Student Data replaced with marking data -----
```

```
SQL> ----- Task 2 DML -----
```

```
SQL> @T2-ml-dm.sql
```

```
SQL> --****PLEASE ENTER YOUR DETAILS BELOW****
```

```
SQL> --T2-ml-dm.sql
```

```
SQL>
```

```
SQL> --Student ID: 30874157
```

```
SQL> --Student Name:Rui Qin
```

```
SQL> --Tutorial No: 02
```

```
SQL>
```

```
SQL> /* Comments for your marker:
```

```
SQL>
```

```
SQL>
```

```
SQL>
```

```
SQL>*/
```

```
SQL>
```

```
SQL> -- 2 (b) (i)
```

```
SQL>
```

```
SQL>
```

```
SQL> -- insert new book
```

```
SQL> INSERT INTO book_detail VALUES (
```

```
2      '005.74 C824C',
```

```
3      'Database Systems: Design, Implementation, and Management',
```

```
4      'R',
```

```
5      793,
```

```
6      TO_DATE('2019','YYYY'),
```

```
7      '13'
```

```
8  );
```

```
1 row inserted.
```

```
SQL> -- insert new book's copy
```

```
SQL> INSERT INTO book_copy VALUES (
```

```
2      ✗10,
```

```
3      ✗20,
```

```
4      120.00,
```

```
5      'N',
```

```
6      '005.74 C824C'
```

```
7  );
```

branch_code, bc_id should NOT be hardcoded

FIT9132 Assignment 2A Grading

1 row inserted.

```
SQL> INSERT INTO book_copy VALUES (  
2      X11,  
3      X20,  
4      120.00,  
5      'N',  
6      '005.74 C824C'  
7  );
```

1 row inserted.

```
SQL> INSERT INTO book_copy VALUES (  
2      X13,  
3      X20,  
4      120.00,  
5      'N',  
6      '005.74 C824C'  
7  );
```

1 row inserted.

```
SQL>  
SQL>  
SQL> --update counter of book in branch  
SQL>  
SQL>  
SQL> --Clayton  
SQL> UPDATE branch  
2  SET  
3      branch_count_books = (  
4          SELECT  
5              branch_count_books      ✓  
6          FROM  
7              branch  
8          WHERE  
9              branch_contact_no = '0395413120'  
10     ) + 1  
11 WHERE  
12     branch_code = (  
13         SELECT  
14             branch_code  
15         FROM  
16             branch  
17         WHERE  
18             branch_contact_no = '0395413120'  
19     );
```

1 row updated.

```
SQL>  
SQL>  
SQL> --Glen Waverley  
SQL> UPDATE branch  
2  SET  
3      branch_count_books = (  
4          SELECT  
5              branch_count_books  
6          FROM  
7              branch  
8          WHERE  
9              branch_contact_no = '0395413120'  
10     ) + 1  
11 WHERE  
12     branch_code = '0395413120';
```

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```
4      SELECT
5          branch_count_books
6      FROM
7          branch
8      WHERE
9          branch_contact_no = '0395601655'
10     ) + 1
11 WHERE
12     branch_code = (
13         SELECT
14             branch_code
15         FROM
16             branch
17         WHERE
18             branch_contact_no = '0395601655'
19     );
```

1 row updated.

```
SQL>
SQL>
SQL> --Mulgrave
SQL> UPDATE branch
2  SET
3      branch_count_books = (
4          SELECT
5              branch_count_books
6          FROM
7              branch
8          WHERE
9              branch_contact_no = '0395461253'
10     ) + 1
11 WHERE
12     branch_code = (
13         SELECT
14             branch_code
15         FROM
16             branch
17         WHERE
18             branch_contact_no = '0395461253'
19     );
```

1 row updated.

```
SQL>
SQL>
SQL> -- 2 (b) (ii)
SQL> CREATE SEQUENCE bor_no_seq START WITH 100 INCREMENT BY 1 NOCACHE;
```

Sequence BOR_NO_SEQ created.

```
SQL> CREATE SEQUENCE reserve_id_seq START WITH 100 INCREMENT BY 1 NOCACHE;
```

Sequence RESERVE_ID_SEQ created.

```
SQL> --DROP SEQUENCE bor_no_seq;
```

drop should come before create

FIT9132 Assignment 2A Grading

```
SQL> --DROP SEQUENCE reserve_id_seq;
SQL> --These are drop of sequences, but I need to use sequences under so I drop before commit.
SQL>
SQL>
SQL> -- 2 (b) (iii)
SQL> INSERT INTO borrower VALUES (
  2     bor_no_seq.NEXTVAL✓
  3     'Ada',
  4     'Lovelace',
  5     '1 Swanston street', ✓
  6     'Melbourne',
  7     '3000',
  8     (
  9         SELECT
 10             branch_code
 11         FROM
 12             branch ✓
 13         WHERE
 14             branch_contact_no = '0395413120'
 15     )
16 );
```

1 row inserted. ✗ Missing commit

```
SQL> INSERT INTO reserve VALUES (
  2     reserve_id_seq.NEXTVAL✓
  3     (
  4         SELECT
  5             branch_code
  6         FROM
  7             branch ✓
  8         WHERE
  9             branch_contact_no = '0395413120'
 10     ),
 11     (
 12         SELECT
 13             bc_id
 14         FROM
 15             book_copy ✓
 16         WHERE
 17             book_call_no = '005.74 C824C'
 18             AND branch_code = (
 19                 SELECT
 20                     branch_code
 21                 FROM
 22                     branch
 23                 WHERE
 24                     branch_contact_no = '0395413120'
 25             )
 26     ),
 27     TO_DATE('2021/09/14 15:30:00','yyyy/mm/dd hh24:mi:ss'),✓
 28     bor_no_seq.CURRVAL✗ should not use sequence
 29 );
```

1 row inserted.

✗ Missing commit

FIT9132 Assignment 2A Grading

```

SQL>
SQL>
SQL> -- 2 (b) (iv)
SQL> INSERT INTO loan VALUES (
2      (
3          SELECT
4              branch_code ✓
5          FROM
6              branch
7          WHERE
8              branch_contact_no = '0395413120'
9      ),
10     (
11         SELECT
12             bc_id
13         FROM
14             book_copy
15         WHERE
16             branch_code = (
17                 SELECT
18                     branch_code
19                 FROM
20                     branch
21                 WHERE
22                     branch_contact_no = '0395413120'
23             )
24         AND bc_id = (
25             SELECT
26                 bc_id
27             FROM
28                 book_copy
29             WHERE
30                 branch_code = (
31                     SELECT
32                         branch_code ✓
33                     FROM
34                         branch
35                     WHERE
36                         branch_contact_no = '0395413120'
37                 )
38             AND book_call_no = '005.74 C824C'
39         )
40     ),
41     (
42         SELECT
43             reserve_date_time_placed + 7 - ( 2 / 24 ) ✗ Incorrect calculation of date
44         FROM
45             reserve
46         WHERE
47             branch_code = (
48                 SELECT
49                     branch_code
50                 FROM
51                     branch
52                 WHERE
53                     branch_contact_no = '0395413120'

```

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```

54      )
55      AND bc_id = (
56          SELECT
57              bc_id
58          FROM
59              book_copy
60          WHERE
61              branch_code = (
62                  SELECT
63                      branch_code
64                  FROM
65                      branch
66                  WHERE
67                      branch_contact_no = '0395413120'
68              )
69          AND book_call_no = '005.74 C824C'
70      )
71      AND bor_no = (
72          SELECT
73              bor_no
74          FROM
75              borrower
76          WHERE
77              bor_fname = 'Ada'
78              AND bor_lname = 'Lovelace'
79      )
80  ),
81  (
82      SELECT
83          reserve_date_time_placed + 7 - ( 2 / 24 ) + 14 ✖
84      FROM
85          reserve
86      WHERE
87          branch_code = (
88              SELECT
89                  branch_code
90              FROM
91                  branch
92              WHERE
93                  branch_contact_no = '0395413120'
94          )
95      AND bc_id = (
96          SELECT
97              bc_id
98          FROM
99              book_copy
100         WHERE
101             branch_code = (
102                 SELECT
103                     branch_code
104                 FROM
105                     branch
106                 WHERE
107                     branch_contact_no = '0395413120'
108             )
109         AND book_call_no = '005.74 C824C'

```

FIT9132 Assignment 2A Grading

```
110         )
111         AND bor_no = (
112             SELECT
113                 bor_no
114             FROM
115                 borrower
116             WHERE
117                 bor_fname = 'Ada'
118                 AND bor_lname = 'Lovelace'
119         )
120     ),
121     ✓ NULL,
122     (
123         SELECT
124             bor_no
125         FROM
126             borrower ✓
127         WHERE
128             bor_fname = 'Ada'
129             AND bor_lname = 'Lovelace'
130     )
131 );
```

1 row inserted.

SQL>

```
SQL> DELETE FROM reserve
2  WHERE
3      bor_no = (
4          SELECT
5              bor_no
6          FROM
7              borrower ✓
8          WHERE
9              bor_fname = 'Ada'
10             AND bor_lname = 'Lovelace'
11      )
12  AND branch_code = (
13      SELECT
14          branch_code
15      FROM
16          branch ✓
17      WHERE
18          branch_contact_no = '0395413120'
19  )
20  AND bc_id = (
21      SELECT
22          bc_id
23      FROM
24          book_copy
25      WHERE
26          branch_code = ( ✓
27              SELECT
28                  branch_code
29              FROM
30                  branch
```

FIT9132 Assignment 2A Grading

```

31         WHERE
32         branch_contact_no = '0395413120'
33     )
34     AND book_call_no = '005.74 C824C'
35 );

```

1 row deleted.

SQL>

SQL> DROP SEQUENCE bor_no_seq;

Sequence BOR_NO_SEQ dropped.

SQL> DROP SEQUENCE reserve_id_seq;

Sequence RESERVE_ID_SEQ dropped.

SQL> COMMIT

Commit complete.

SQL>

SQL> select table_name, table_type from cat where table_type='SEQUENCE' order by table_name;

no rows selected

SQL> select * from borrower;

BOR_NO	BOR_FNAME	BOR_LNAME	BOR_STREET	BOR_SUBURB	BOR_	BRANCH_CODE
1	Mark	Zuckerberg	1 Facebook Way	Faceville	1000	10
2	Sergey	Brin	2 Alphabet Way	Alphaville	2000	11
3	Larry	Page	1 Alphabet Way	Alphaville	2000	11
4	Bill	Gates	1 Microsoft Way	Microville	3000	12
5	Tim	Cook	1 ApplePark Lane	Appleville	4000	13
100	Ada	Lovelace	1 Swanston street	Melbourne	3000	10

6 rows selected.

SQL> SELECT

```

2     branch_code,
3     bc_id,
4     to_char(loan_date_time,'dd-Mon-yyyy hh24:mi:ss') as loan_date_time,
5     to_char(loan_due_date,'dd-Mon-yyyy') as loan_due_date,
6     to_char(loan_actual_return_date,'dd-Mon-yyyy') as loan_actual_return_date,
7     bor_no
8 FROM
9     loan
10 ORDER BY
11     loan_date_time;

```

BRANCH_CODE	BC_ID	LOAN_DATE_TIME	LOAN_DUE_DATE	LOAN_ACTUAL_RETURN_D	BOR_NO
12	1	01-Jun-2021 09:00:00	15-Jun-2021	10-Jun-2021	4
12	2	01-Jun-2021 10:15:00	15-Jun-2021	15-Jun-2021	4
13	1	01-Jun-2021 14:00:00	15-Jun-2021	15-Jun-2021	5
12	2	06-Aug-2021 13:00:00	20-Aug-2021	20-Aug-2021	5
12	1	06-Aug-2021 13:00:00	20-Aug-2021	20-Aug-2021	4

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13	1	06-Aug-2021 13:06:00	20-Aug-2021	18-Aug-2021	4
12	4	12-Aug-2021 11:50:00	26-Aug-2021		1
12	5	13-Aug-2021 10:00:00	27-Aug-2021		2
12	1	15-Jun-2021 10:00:00	29-Jun-2021	01-Aug-2021	1
13	1	15-Jun-2021 11:00:00	29-Jun-2021	05-Aug-2021	1
12	2	17-Jun-2021 10:00:00	01-Jul-2021	29-Jun-2021	3
10	20	21-Sep-2021 13:30:00	05-Oct-2021		100

12 rows selected.

```
SQL>
SQL> SELECT
  2     reserve_id,
  3     branch_code,
  4     bc_id,
  5     to_char(reserve_date_time_placed,'dd-Mon-yyyy hh24:mi:ss') as reserve_date_time_placed,
  6     bor_no
  7 FROM
  8     reserve
  9 order by
 10     reserve_date_time_placed;
```

RESERVE_ID	BRANCH_CODE	BC_ID	RESERVE_DATE_TIME_PLACED	BOR_NO
1	12	4	16-Aug-2021 10:00:00	2
2	12	5	18-Aug-2021 11:30:00	1

```
SQL>
SQL> set echo on
SQL> ----- Task 3 ALTER -----
SQL> @T3-ml-alter.sql
SQL> *****PLEASE ENTER YOUR DETAILS BELOW*****
SQL> --T3-ml-alter.sql
SQL>
SQL> --Student ID: 30874157
SQL> --Student Name:Rui Qin
SQL> --Tutorial No: 02
SQL>
SQL> /* Comments for your marker:
SQL>
SQL>
SQL>
SQL>*/
SQL>
SQL> -- 3 (a)
SQL> ALTER TABLE book_copy ADD bc_state CHAR(1) DEFAULT 'G' NOT NULL ✓
```

Table BOOK_COPY altered.

```
SQL> COMMENT ON COLUMN book_copy.bc_state IS
  2     'Record whether a book is damaged (D) or lost (L) or good (G)';
```

Comment created.

```
SQL> ALTER TABLE book_copy
```

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```
2      ADD CONSTRAINT bc_state_chk CHECK ( bc_state IN (
3          'D',
4          'L',
5          'G'
6      ) );✓
```

Table BOOK_COPY altered.

```
SQL>
SQL> -- update the special book state
SQL> UPDATE book_copy
2  SET
3      bc_state = 'L'✓
4  WHERE
5      branch_code = (
6          SELECT
7              branch_code
8          FROM
9              branch
10             WHERE
11                 branch_contact_no = '0395601655'
12         )AND
13         bc_id = (
14             SELECT
15                 bc_id
16             FROM
17                 book_copy
18             WHERE
19                 book_call_no = '005.74 C824C'
20                 AND branch_code = (
21                     SELECT
22                         branch_code
23                     FROM
24                         branch
25                     WHERE
26                         branch_contact_no = '0395601655'
27                 )
28         );
```

✗ Extra

✓

1 row updated.

```
SQL>
SQL>
SQL> -- 3 (b)
SQL> ALTER TABLE loan ADD branch_bc_returned NUMERIC(2);✓
```

Table LOAN altered.

```
SQL>
SQL> COMMENT ON COLUMN loan.branch_bc_returned IS
2     'Branch code where book is returned';
```

Comment created.

```
SQL>
SQL> ALTER TABLE loan
```

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```
2      ADD CONSTRAINT loan_branch FOREIGN KEY ( branch_bc_returned )
3      REFERENCES branch ( branch_code );✓
```

Table LOAN altered.

```
SQL>
SQL> UPDATE loan
2  SET
3      branch_bc_returned = branch_code ✓
4  WHERE
5      loan_actual_return_date IS NOT NULL;
```

9 rows updated.

SQL> ✗ Missing commit

```
SQL>
SQL> -- 3 (c) ✗ did not populate data from branch table
SQL> CREATE TABLE manager_type (
2      branch_code      NUMERIC(2) NOT NULL,
3      man_id            NUMERIC(2) NOT NULL, ✓
4      mt_type           CHAR(2) NOT NULL
5  );
```

Table MANAGER_TYPE created.

```
SQL>
SQL> COMMENT ON COLUMN manager_type.branch_code IS
2      'Branch number ';
```

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN manager_type.man_id IS
2      'Manager id ';
```

Comment created.

```
SQL>
SQL> COMMENT ON COLUMN manager_type.mt_type IS
2      'type of collection manager manages - F (Fiction),R(Reference), FR(Fiction Reference)';
```

Comment created.

```
SQL>
SQL> --because the relationship change, not min one max one so drop man_id
SQL> ALTER TABLE branch DROP COLUMN man_id;✓
```

Table BRANCH altered.

```
SQL> --define primary key
SQL> ALTER TABLE manager_type ADD CONSTRAINT manager_type_pk PRIMARY KEY ( branch_code,
2      man_id );✓
```

Table MANAGER_TYPE altered.

```
SQL> ALTER TABLE manager_type
```

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```
2      ADD CONSTRAINT manager_type_branch FOREIGN KEY ( branch_code )
3      REFERENCES branch ( branch_code ) ✓
```

Table MANAGER_TYPE altered.

```
SQL>
SQL> ALTER TABLE manager_type
2      ADD CONSTRAINT manager_type_manager FOREIGN KEY ( man_id )
3      REFERENCES manager ( man_id ) ✓
```

Table MANAGER_TYPE altered.

```
SQL>
SQL> ALTER TABLE manager_type
2      ADD CONSTRAINT mt_type_chk CHECK ( mt_type IN (
3          'F',
4          'R',
5          'FR'
6      ) ) ✓
```

Table MANAGER_TYPE altered.

```
SQL>
SQL> -- insert manager of clayton
SQL> INSERT INTO manager_type VALUES (
2      (
3          SELECT
4              branch_code
5          FROM
6              branch
7          WHERE
8              branch_contact_no = '0395413120'
9      ),
10     10,
11     'R'
12 ) ; ✓
```

1 row inserted.

```
SQL>
SQL> INSERT INTO manager_type VALUES (
2      (
3          SELECT
4              branch_code
5          FROM
6              branch
7          WHERE
8              branch_contact_no = '0395413120'
9      ),
10     12,
11     'F'
12 ) ; ✓
```

1 row inserted.

SQL>

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SQL> COMMIT;

Commit complete.

SQL>

SQL> ----- BOOK_COPY -----

SQL> desc book_copy;

Name	Null?	Type
BRANCH_CODE	NOT NULL	NUMBER(2)
BC_ID	NOT NULL	NUMBER(6)
BC_PURCHASE_PRICE	NOT NULL	NUMBER(7,2)
BC_COUNTER_RESERVE	NOT NULL	CHAR(1)
BOOK_CALL_NO	NOT NULL	VARCHAR2(20)
BC_STATE	NOT NULL	CHAR(1)

SQL> select * from book_copy;

BRANCH_CODE	BC_ID	BC_PURCHASE_PRICE	B	BOOK_CALL_NO	B
10	1	150.43	Y	005.432 L761P	G
12	1	150.43	N	005.432 L761P	G
13	1	150.43	N	005.432 L761P	G
10	2	24.56	N	823.914 A211H	G
10	3	82.83	N	005.74 D691D	G
12	2	82.83	N	005.74 D691D	G
13	2	85.67	Y	005.74 D691D	G
12	3	22.06	N	112.6 S874D	G
12	4	19.99	N	823.914 H219A	G
12	5	19.99	N	823.914 H219A	G
10	20	120	N	005.74 C824C	G
11	20	120	N	005.74 C824C	L
13	20	120	N	005.74 C824C	G

13 rows selected.

SQL> ----- LOAN -----

SQL> desc loan;

Name	Null?	Type
BRANCH_CODE	NOT NULL	NUMBER(2)
BC_ID	NOT NULL	NUMBER(6)
LOAN_DATE_TIME	NOT NULL	DATE
LOAN_DUE_DATE	NOT NULL	DATE
LOAN_ACTUAL_RETURN_DATE		DATE
BOR_NO	NOT NULL	NUMBER(6)
BRANCH_BC_RETURNED		NUMBER(2)

SQL> select * from loan;

BRANCH_CODE	BC_ID	LOAN_DATE	LOAN_DUE_	LOAN_ACTU	BOR_NO	BRANCH_BC_RETURNED
12	1	01/JUN/21	15/JUN/21	10/JUN/21	4	12
12	2	01/JUN/21	15/JUN/21	15/JUN/21	4	12
13	1	01/JUN/21	15/JUN/21	15/JUN/21	5	13
12	1	15/JUN/21	29/JUN/21	01/AUG/21	1	12
13	1	15/JUN/21	29/JUN/21	05/AUG/21	1	13
12	2	17/JUN/21	01/JUL/21	29/JUN/21	3	12

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12	1	06/AUG/21	20/AUG/21	20/AUG/21	4	12
12	2	06/AUG/21	20/AUG/21	20/AUG/21	5	12
13	1	06/AUG/21	20/AUG/21	18/AUG/21	4	13
12	4	12/AUG/21	26/AUG/21		1	
12	5	13/AUG/21	27/AUG/21		2	
10	20	21/SEP/21	05/OCT/21		100	

12 rows selected.

SQL> ----- BRANCH -----

SQL> desc branch;

Name	Null?	Type
------	-------	------

BRANCH_CODE	NOT NULL	NUMBER(2)
BRANCH_NAME	NOT NULL	VARCHAR2(50)
BRANCH_ADDRESS	NOT NULL	VARCHAR2(100)
BRANCH_CONTACT_NO	NOT NULL	CHAR(10)
BRANCH_COUNT_BOOKS	NOT NULL	NUMBER(5)

SQL> select * from branch;

BRANCH_CODE	BRANCH_NAME	BRANCH_ADDRESS	BRANCH_CON	BRANCH_COUNT_BOOKS
10	Clayton Library	9-15 Cooke Street, Clayton 3168	0395413120	4
11	Glen Waverley Library	112 Kingsway, Glen Waverley 3150	0395601655	1
12	Mount Waverley Library	41 Miller Crescent, Mount Waverley 3149	0398075022	5
13	Mulgrave Library	36 - 42 Mackie Road, Mulgrave 3170	0395461253	3

SQL>

SQL> set echo on

SQL> ===== END RUN =====

SQL> set echo off