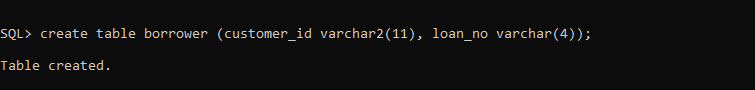
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| REG NO : 21MAI1003 | | | | | | | | |  | |
| **Lab Exercise 3** | | | | | | | | |  | |
| Programme | | | : | MTech AI&ML,CPS | Semester | : | FALL 2021-22 | | | |
| Course Title | | | : | DBMS Lab | Code | : | CSE5003 | | | |
| Class Nbr(s) |  | CH2021221700142 | | | |
| Faculty(s) | | | : | Dr Parkavi K | Slot |  | L23+L24 | | | |
| Date | | | : | NOV 2021 |  |  |  | | | |
| **DDL Commands and Constraints** | | | | | | | | | |  |
| **Q.No.** | | **Question Description** | | | | | | **Marks** | | | |  |
| **1**  **2**  **3**  **4**  **5**  **6**  **7**  **8**  **9**  **10**  **11**  **12**  **13**  **14**  **15**  **16** |  | **Create and describe the following tables:**  A) **NAME**: branch  **FIELDS DATATYPE**  branch\_name varchar2(30)  branch\_city varchar2(30)  assets number(8,2)  B) **NAME**: account  **FIELDS DATATYPE**  account\_no varchar2(11)  branch\_name varchar2(30)  balance number(8)    C) **NAME**: customer  **FIELD DATATYPE**  customer\_id varchar2(11)  customer\_name varchar2(20)  customer\_street varchar2(15)  customer\_city varchar2(15)  D) **NAME**: depositor  **FIELD DATATYPE**  customer\_id varchar2(11)  account\_no varchar2(11)  E) **NAME**: loan  **FIELDS DATATYPE**  loan\_no varchar2(4)  branch\_name varchar2(30)  amount number(8,2)    F) **NAME**: borrower  **FIELDS DATATYPE**  customer\_id varchar2(11)  loan\_no varcahr2(4)  **Describe the structure of all database schemas.**  **Alter the structure of the Database**   1. Add a new column ‘account opening date’ in the account table. 2. Increase the width of the column customer\_street in table customer to 20.   **Add primary keys to all the tables for the specified attributes**  A) **NAME**: branch  **FIELDS DATATYPE**  branch\_name varchar2(30) primary key  branch\_city varchar2(30)  assets number(8,2)  B) **NAME**: account  **FIELDS DATATYPE**  account\_no varchar2(11) primary key  branch\_name varchar2(30)  balance number(8)    C) **NAME**: customer  **FIELD DATATYPE**  customer\_id varchar2(11) primary key  customer\_name varchar2(20)  customer\_street varchar2(15)  customer\_city varchar2(15)  D) **NAME**: loan  **FIELDS DATATYPE**  loan\_no varchar2(4) primary key  branch\_name varchar2(30)  amount number(8,2)    **Add foreign keys to the following tables for the specified attributes with mentioned reference table**  B) **NAME**: account  **FIELDS DATATYPE**  account\_no varchar2(11) primary key  branch\_name varchar2(30) references branch(branch\_name)  balance number(8)  C) **NAME**: depositor  **FIELD DATATYPE**  customer\_id varchar2(11)references customer (customer\_id)  account\_no varchar2(11)references account (account\_no)  D) **NAME**: loan  **FIELDS DATATYPE**  loan\_no varchar2(4) primary key  branch\_name varchar2(30) references branch(branch\_name)  (Create constraint with constraint name)  amount number(8,2)    Drop foreign key constraint from loan table  Set loan\_no attribute of borrower table as foreign key with cascade deletion,  which refers to loan table loan\_no column.  Add foreign key for the customer\_id of borrower table which refers to customer table with constraint name.  **Insert the following values into the tables**   1. **branch :**   **BRANCH\_NAME BRANCH\_CITY ASSETS**  **Perryridge Rye 5000000**  **Downtown Stamford 1000000**  **Brighton Paloalto 2500000**  **Redwood Harrison 1500000**  **Mianus Pitsfield 4500000**  **Roundhill Princeton 1500000**  **2. account :**  **ACCOUNT\_NO BRANCH\_NAME BALANCE**  **019\_28\_3746 Perryridge 15000**  **182\_73\_6091 Downtown 23000**  **192\_83\_7465 Brighton 18000**  **321\_12\_3123 Redwood 5000**  **336\_66\_9999 Mianus 5000**  **963\_96\_3963 Roundhill 5000**  **376\_66\_9999 Mianus 9000**  **963\_96\_3964 Mianus 13000**  **3. loan :**  **LOAN BRANCH\_NAME AMOUNT**  **1\_11 Roundhill 9000**  **1\_14 Downtown 15000**  **1\_15 Perryridge 15000**  **1\_16 Perryridge 13000**  **1\_17 Downtown 10000**  **1\_23 Redwood 20000**  **1\_93 Mianus 500**  **4. depositor**  **CUSTOMER\_ID ACCOUNT\_NO**  **c\_08 182\_73\_6091**  **c\_03 192\_83\_7465**  **c\_05 321\_12\_3123**  **c\_07 336\_66\_9999**  **c\_08 963\_96\_3963**  **c\_02 376\_66\_9999**    **5. customer**  **CUSTOMER\_ID CUSTOMER\_NAME CUSTOMER\_STREET CUSTOMER\_CITY**  **c\_01 smith north rye**  **c\_02 turner putnam stamford**  **c\_03 johnson alma palo alto**  **c\_04 curry north rye**  **c\_05 jones main harrisdon**  **c\_06 adoms spring pittsfield**  **c\_07 lindsay park pittsfield**  **c\_08 hayes main harrison**  **c\_09 williams nassau Princeton**  **6. borrower**  **CUSTOMER\_ID LOAN\_NO**  **c\_01 1\_11**  **c\_01 1\_23**  **c\_03 1\_93**  **c\_05 1\_17**  **c\_03 1\_16**  **c\_05 1\_14**  **Create the Database Schema for a Employee-pay scenario**   1. employee(emp\_id : integer, emp\_name: string, address: string, city: string) 2. department(dept\_id: integer, dept\_name:string) 3. paydetails(emp\_id : integer, dept\_id: integer, basic: integer, deductions: integer,   additions: integer, DOJ: date)   1. payroll(emp\_id : integer, pay\_date: date)   For the above schema, perform the following:  **Create PRIMARY KEY for employee(emp\_id) and department(dept\_id).**  **Enforce NOT NULL constraint for emp\_name.**  **Creates a DEFAULT constraint on the "City" column of employee table.**  **Create NOT NULL for dept\_id on department table.**  **Create NOT NULL for basic in pay details.**  **Enforce CHECK constraints for (deductions > 780) on pay details.** | | | | | | **10** | | | |
|  |  |  | | | | | | **10** | | | |

**OUTPUT**

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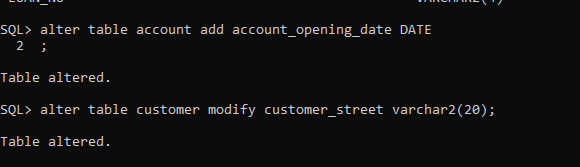
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