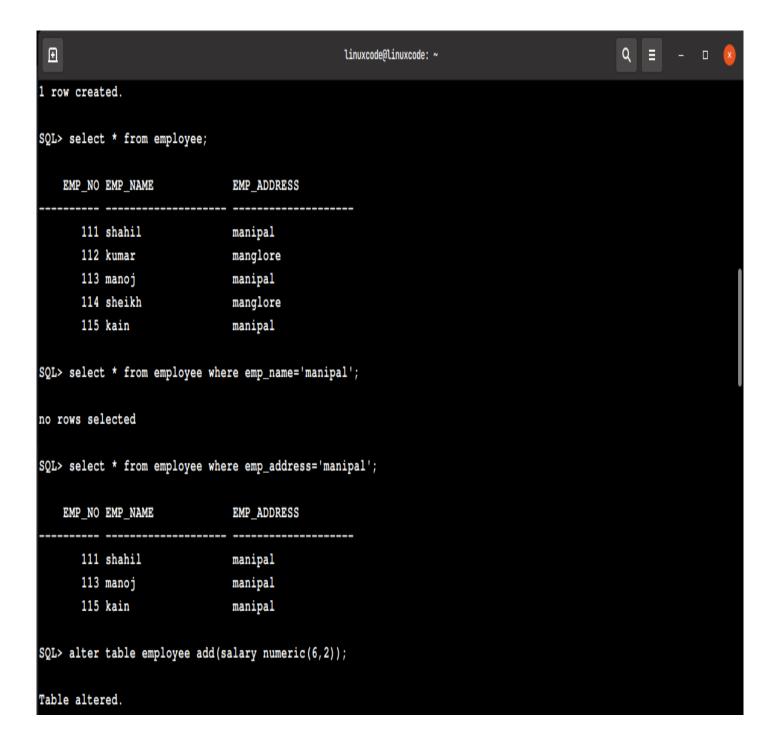
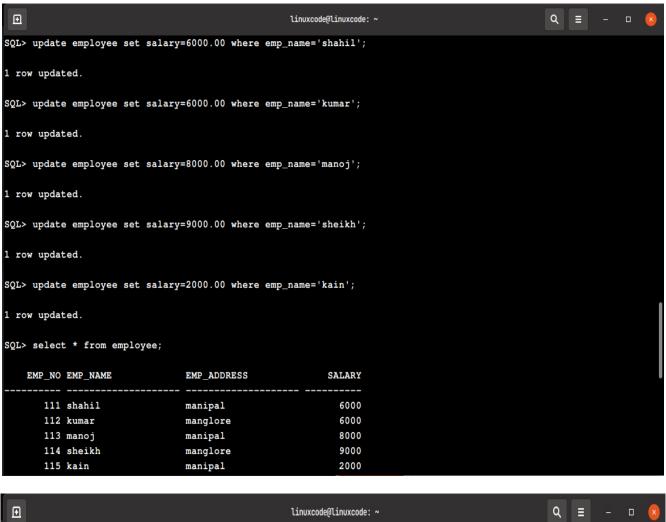
WEEK1 LAB 1:

LAB EXERCISES 1:

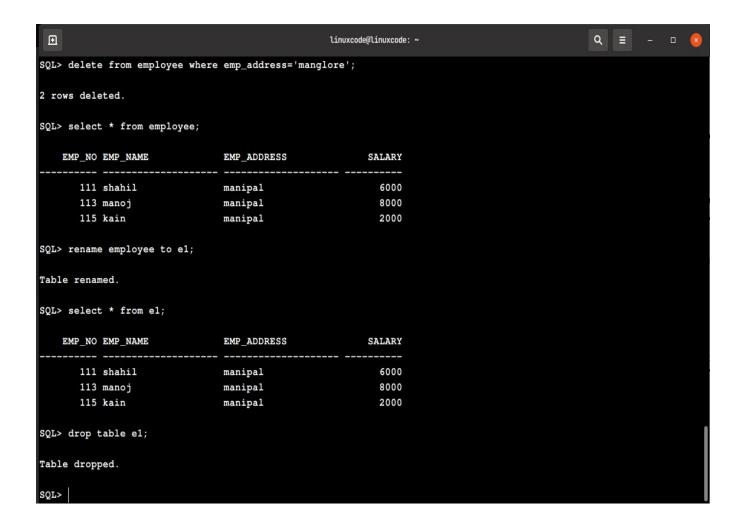
- 1. Create a table employee with (emp_no, emp_name, emp_address)
- 2. Insert five employees information.
- 3. Display names of all employees.
- 4. Display all the employees from 'MANIPAL'.
- 5. Add a column named salary to employee table.
- 6. Assign the salary for all employees.
- 7. View the structure of the table employee using describe.
- 8. Delete all the employees from 'MANGALORE'
- 9. Rename employee as employee1.
- 10. Drop the table employee1.

```
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     create table employee(emp_no number(3),emp_name varchar(20) not null,emp_address varchar(20));
SQL>
Table created.
SQL> desc employee;
 Name
                                             Null?
                                                       Type
 EMP_NO
                                                      NUMBER (3)
 EMP NAME
                                             NOT NULL VARCHAR2 (20)
 EMP ADDRESS
                                                       VARCHAR2 (20)
SQL> insert into employee values('111', 'shahil', 'manipal');
                insert into employee values('112','kumar','manglore');
                         insert into employee values('113', 'manoj', 'manipal');
                                 insert into employee values('114', 'sheikh', 'manglore');
                                          insert into employee values('115', 'kain', 'manipal');
1 row created.
SQL>
1 row created.
SQL>
1 row created.
SQL>
1 row created.
```





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SQL> desc employee;						
Name	Null?	Type				
EMP_NO		NUMBER (3)				
EMP_NAME	NOT NULL	VARCHAR2 (20)				
EMP_ADDRESS		VARCHAR2 (20)				
SALARY		NUMBER (6,2)				
<pre>2 rows deleted. SQL> select * from employee; EMP_NO EMP_NAME</pre>	EMP_ADDRESS	SALARY				
	manipal	6000				
	manipal	8000				
115 kain	manipal	2000				
SQL> rename employee to e1;						
Table renamed.						



1.Implement the Bank Database and execute the given queries/updates

Bank Database Schema:

ACCOUNT(ACCOUNT_NUMBER, BRANCH_NAME, BALANCE)
BRANCH (BRANCH_NAME, BRANCH_CITY, ASSETS)
CUSTOMER (CUSTOMER_NAME CUSTOMER_STREET, CUSTOMER_CITY)
LOAN (LOAN_NUMBER, BRANCH_NAME, AMOUNT)
DEPOSITOR(CUSTOMER_NAME, ACCOUNT_NUMBER)
BORROWER(CUSTOMER_NAME, LOAN_NUMBER)
Creating Tables

CREATE TABLE BRANCH (BRANCH_NAME VARCHAR (15) PRIMARY KEY, BRANCH_CITY VARCAHAR (20), ASSETS NUMBER (10));

CREATE TABLE ACCOUNT (ACCOUNT_NUMBER NUMBER (10) PRIMARY KEY, BRANCH_NAME VARCHAR (15) REFERENCES BRANCH, BALANCE NUMBER (8));

CREATE TABLE CUSTOMER (CUSTOMER_NAME VARCHAR (20) PRIMARY KEY, CUSTOMER_STREETVARCHAR (15), CUSTOMER CITY VARCHAR (10));

CREATE TABLE LOAN (LOAN_NUMBER NUMBER (10) PRIMARY KEY, BRANCH_NAME VARCHAR (15) REFERENCES BRANCH, AMOUNT NUMBER (10))

CREATE TABLE DEPOSITOR (CUSTOMER_NAME VARCHAR (2) REFERENCES CUSTOMER, ACCOUNT_NUMBER NUMBER (10) REFERENCES ACCOUNT, PRIMARY KEY (CUSTOMER_NAME, ACCOUNT_NUMBER));

Retrieving records from a table:

- 1. list the information of all account holders (name and account number). Select * from depositor.
- 2. List all branch names and their assets

SELECT BRANCH_NAME, ASSETS FROM BRANCH;

3. List all accounts of Brooklyn branch

SELECT * FROM ACCOUNT WHERE BRANCH NAME= 'BROOKLYN';

4. List all loans with amount > 1000.

SELECT * FROM LOAN WHERE AMOUNT>1000;

Updating records from a table:

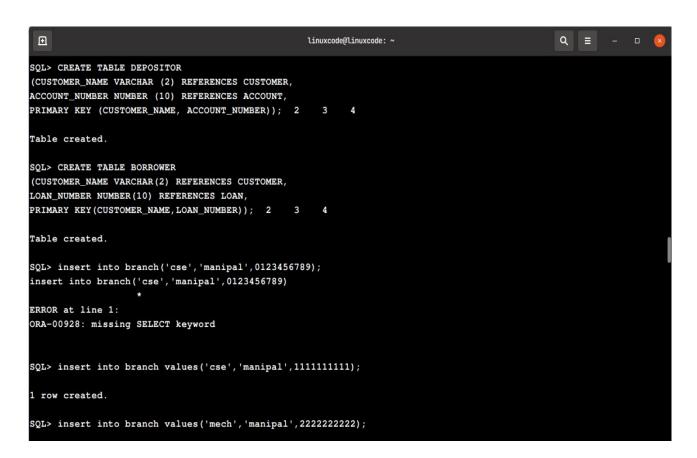
4. Change the assets of Perryridge branch to 340000000.

UPDATE BRANCH SET ASSETS=340000000

WHERE BRANCH_NAME='cse';

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SQL> create table branch(branch_name varchar(15) primary key,branch_city varchar(15),assets number(10));
Table created.
SQL> CREATE TABLE CUSTOMER (CUSTOMER_NAME VARCHAR(20) PRIMARY KEY, CUSTOMER_STREET VARCHAR(15),CUSTOMER_CITY VARC
HAR (10));
Table created.
SQL> CREATE TABLE ACCOUNT
(ACCOUNT_NUMBER NUMBER (10) PRIMARY KEY,
BRANCH_NAME VARCHAR (15) REFERENCES BRANCH,
BALANCE NUMBER (8)); 2
Table created.
SQL> CREATE TABLE LOAN
(LOAN_NUMBER NUMBER (10) PRIMARY KEY,
BRANCH_NAME VARCHAR (15) REFERENCES BRANCH ,
AMOUNT NUMBER (10)) 2
Table created.
```

```
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 ⅎ
SQL> CREATE TABLE DEPOSITOR
(CUSTOMER_NAME VARCHAR (2) REFERENCES CUSTOMER,
ACCOUNT_NUMBER NUMBER (10) REFERENCES ACCOUNT,
PRIMARY KEY (CUSTOMER_NAME, ACCOUNT_NUMBER)); 2
Table created.
SQL> CREATE TABLE BORROWER
(CUSTOMER_NAME VARCHAR(2) REFERENCES CUSTOMER,
LOAN_NUMBER NUMBER(10) REFERENCES LOAN,
PRIMARY KEY (CUSTOMER_NAME, LOAN_NUMBER)); 2
Table created.
SQL> insert into branch('cse', 'manipal', 0123456789);
insert into branch('cse', 'manipal', 0123456789)
ERROR at line 1:
ORA-00928: missing SELECT keyword
SQL> insert into branch values('cse', 'manipal', 1111111111);
1 row created.
SQL> insert into branch values('mech', 'manipal', 2222222222);
```



```
Itinuxcode@tinuxcode: ~ Q E - D SQL> insert into branch values('mech', 'manipal',22222222222);

1 row created.

SQL> insert into account values(1234567899, 'cse',12345678);

1 row created.

SQL> insert into account values(1234567889, 'mech',12345677);

1 row created.

SQL> insert into customer('mohan', 'udupi', 'manipal');
insert into customer('mohan', 'udupi', 'manipal')

*

ERROR at line 1:

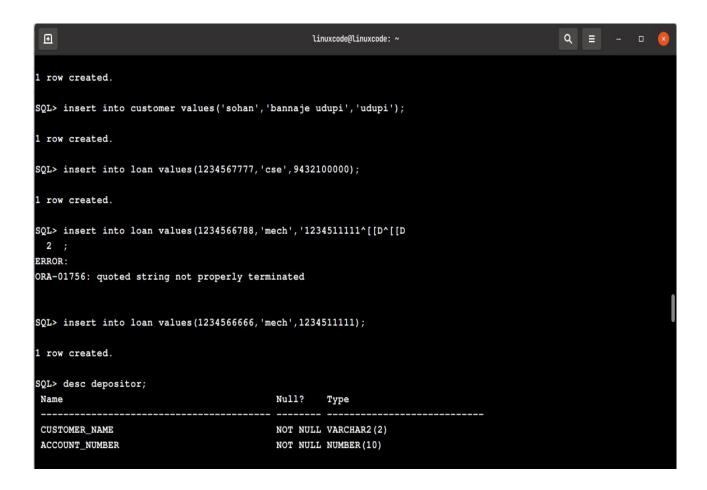
ORA-00928: missing SELECT keyword

SQL> insert into customer values('mohan', 'laxmindra nagar', 'udupi');

1 row created.

SQL> insert into customer values('sohan', 'bannaje udupi', 'udupi');

1 row created.
```



```
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ORA-02291: integrity constraint (SYSTEM.SYS_C007040) violated - parent key not
SQL> alter table depositor (customer_name varchar(20));
alter table depositor (customer_name varchar(20))
ERROR at line 1:
ORA-01735: invalid ALTER TABLE option
SQL> alter table depositor modify(customer_name varchar(20));
Table altered.
SQL> insert into depositor values('mohan',1234567899);
1 row created.
SQL> select * from depositor;
CUSTOMER_NAME
                ACCOUNT_NUMBER
                       1234567899
mohan
                                               linuxcode@linuxcode: ~
                                                                                           Q = - - 0
SQL> select * from account where branch_name='cse';
ACCOUNT_NUMBER BRANCH_NAME
                              BALANCE
   1234567899 cse
                             12345678
SQL> select * from loan where amount>1000;
LOAN_NUMBER BRANCH_NAME AMOUNT
1234567777 cse
1234566666 mech
                        9432100000
                         1234511111
SQL> select * from branch;
BRANCH_NAME BRANCH_CITY
                                 ASSETS
               manipal 111111111
cse
               manipal
                              222222222
mech
SQL> update branch set assets=1111111111 where branch_name='cse';
1 row updated.
SQL> select * from branch;
```

BRANCH_NAME BRANCH_CITY

ASSETS