Tasneem Hossain

Project 3

**Requirement #3 – Copy/Paste the EACH of the CREATE INDEXES STATEMENTS & Screen Shot of the INDEX Objects in Oracle SQL Developer to the MS Word document Design & Implementation Document to SHOW PROOF That they were CREATED & EXECUTED.**

1)

SELECT CUSTOMERID, ACCOUNTNO,TRANSACTIONAMOUNT,TRANSACTIONDATE

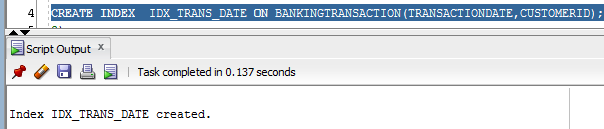
FROM BANKINGTRANSACTION

WHERE TRANSACTIONDATE BETWEEN '01-jan-18' and '30-jan-18';

Primary key Index is on the transactionid column on BankingTransaction table.

Secondary key Index is on Transactiondate and CustomerId.

**CREATE INDEX IDX\_TRANS\_DATE ON BANKINGTRANSACTION(TRANSACTIONDATE,CUSTOMERID);**



2)

select ABLOCATIONID,ATMNUMBER

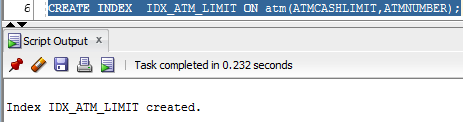
from atm

where ATMCASHLIMIT < 1000;

Primary key Index is on the ablocationId column on atm table.

Secondary key Index is on ATMCASHLIMIT and ATMNUMBER.

**CREATE INDEX IDX\_ATM\_LIMIT ON atm(ATMCASHLIMIT,ATMNUMBER);**



3)

SELECT OVERDRAFTPROTECTIONLIMIT

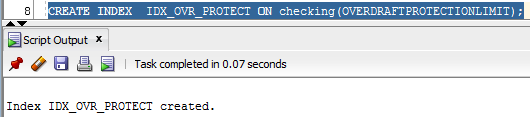
from checking

where caccountno = 49622220;

Primary key Index is on the caccountno column on checking table.

Secondary key Index is on OVERDRAFTPROTECTIONLIMIT.

**CREATE INDEX IDX\_OVR\_PROTECT ON checking(OVERDRAFTPROTECTIONLIMIT);**



4)

select count(blocationtype) as no\_of\_atm

from bankinglocation

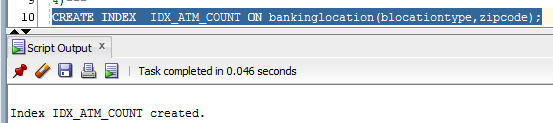
where zipcode = '1RT5'

and blocationtype = 'A'

Primary key Index is on the blocationid column on bankinglocation table.

Secondary key Index is on blocationtype and. zipcode

**CREATE INDEX IDX\_ATM\_COUNT ON bankinglocation(blocationtype, zipcode);**



5)

select loan.customerid, LOAN.LOANNO, STUDENT.ESTGRADUATIONDATE

from loan, customer, student

where loan.customerid = customer.customerid

and LOAN.LOANNO = STUDENT.SLOANNO

and ESTGRADUATIONDATE between '15-aug-19' and '31-Dec-19';

Primary key Index is on the customerid column on customer table.

Primary key Index is on the LOANNO column on loan table.

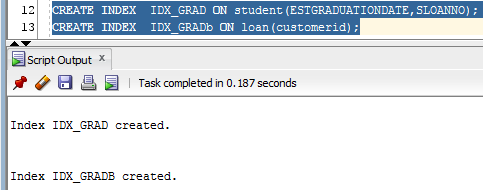
Primary key Index is on the SLOANNO column on STUDENT table.

Secondary key Index is on ESTGRADUATIONDATE , SLOANNO

Secondary key Index is on customerid

**CREATE INDEX IDX\_GRAD ON student(ESTGRADUATIONDATE,SLOANNO);**

**CREATE INDEX IDX\_GRADB ON loan(customerid);**



6)

SELECT CACCOUNTNO, SERVICECHARGE

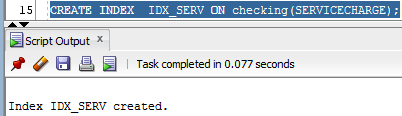
FROM CHECKING

WHERE CACCOUNTNO = 49622220;

Primary key Index is on the CACCOUNTNO column on CHECKING table.

Secondary key Index is on SERVICECHARGE

**CREATE INDEX IDX\_SERV ON checking(SERVICECHARGE);**



7)

SELECT LOAN.LOANNO,loan.CUSTOMERID, LOAN.LOANTYPE,PERSON.FIRSTNAME, PERSON.LASTNAME, PERSON.MOBILENUMBER

FROM LOAN,person

where loan.CUSTOMERID = PERSON.PCUSTOMERID

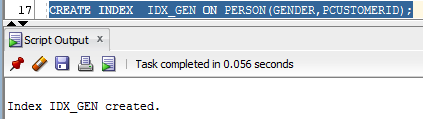
and PERSON.GENDER = 'F';

Primary key Index is on the LOANNO column on LOAN table

Primary key Index is on the PCUSTOMERID column on PERSON table

Secondary key Index is on GENDER

**CREATE INDEX IDX\_GEN ON PERSON(GENDER,PCUSTOMERID);**



8)

select Aloanno,downpayment

from auto

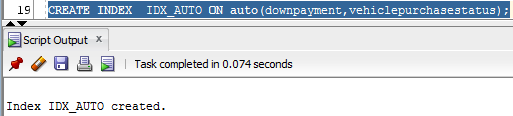
where vehiclepurchasestatus = 'PREOWNED'

and downpayment > 5000;

Primary key Index is on the Aloanno column on auto table.

Secondary key Index is on vehiclepurchasestatus, downpayment

**CREATE INDEX IDX\_AUTO ON auto(downpayment,vehiclepurchasestatus);**

****

9)

select SACCOUNTNO,INTERESTRATE

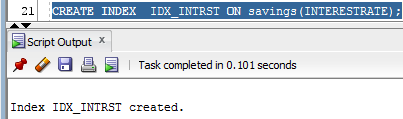
from savings

where SACCOUNTNO = 29822220;

Primary key Index is on the SACCOUNTNO column on savings table.

Secondary key Index is on INTERESTRATE

**CREATE INDEX IDX\_INTRST ON savings(INTERESTRATE);**

****

10)

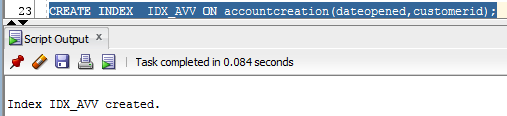
select customerid, accountno

from accountcreation

where dateopened between '01-DEC-18' and '31-DEC-18';

Secondary key Index is on dateopened, customerid

**CREATE INDEX IDX\_AVV ON accountcreation(dateopened,customerid);**

****

**Requirement #5 – Copy/Paste the EACH of the VIEW STATEMENTS & Screen Shot of the View Objects in Oracle SQL Developer to the MS Word document Design & Implementation Document to SHOW PROOF That they were CREATED & EXECUTED.**

1)

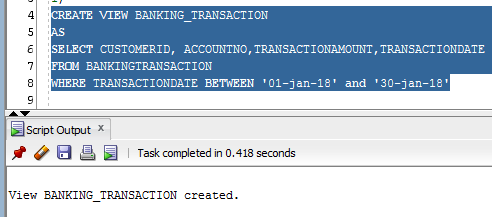
CREATE VIEW BANKING\_TRANSACTION

AS

SELECT CUSTOMERID, ACCOUNTNO,TRANSACTIONAMOUNT,TRANSACTIONDATE

FROM BANKINGTRANSACTION

WHERE TRANSACTIONDATE BETWEEN '01-jan-18' and '30-jan-18';



2)

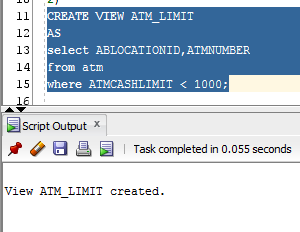
CREATE VIEW ATM\_LIMIT

AS

select ABLOCATIONID,ATMNUMBER

from atm

where ATMCASHLIMIT < 1000;



3)

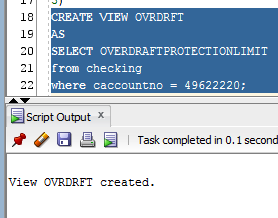
CREATE VIEW OVRDRFT

AS

SELECT OVERDRAFTPROTECTIONLIMIT

from checking

where caccountno = 49622220;



4)

CREATE VIEW ATM\_NUM

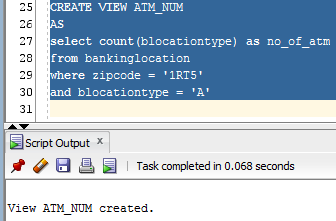
AS

select count(blocationtype) as no\_of\_atm

from bankinglocation

where zipcode = '1RT5'

and blocationtype = 'A'



5)

CREATE VIEW EST\_GRAD

AS

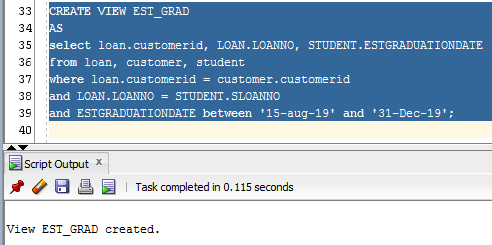
select loan.customerid, LOAN.LOANNO, STUDENT.ESTGRADUATIONDATE

from loan, customer, student

where loan.customerid = customer.customerid

and LOAN.LOANNO = STUDENT.SLOANNO

and ESTGRADUATIONDATE between '15-aug-19' and '31-Dec-19';



6)

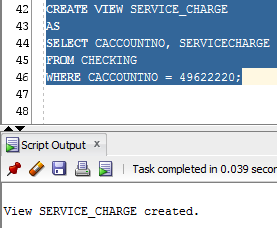
CREATE VIEW SERVICE\_CHARGE

AS

SELECT CACCOUNTNO, SERVICECHARGE

FROM CHECKING

WHERE CACCOUNTNO = 49622220;



7)

CREATE VIEW CUST\_FEMALE

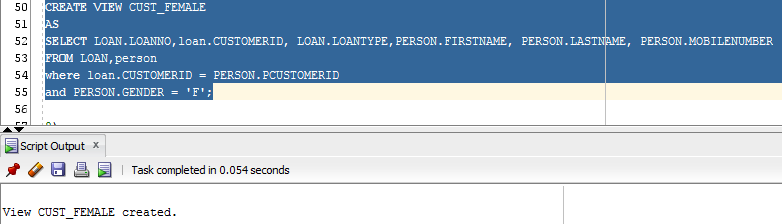
AS

SELECT LOAN.LOANNO,loan.CUSTOMERID, LOAN.LOANTYPE,PERSON.FIRSTNAME, PERSON.LASTNAME, PERSON.MOBILENUMBER

FROM LOAN,person

where loan.CUSTOMERID = PERSON.PCUSTOMERID

and PERSON.GENDER = 'F';



8)

CREATE VIEW PREOWND\_DWNPYMNT

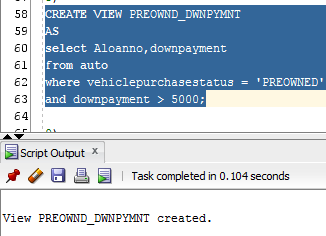
AS

select Aloanno,downpayment

from auto

where vehiclepurchasestatus = 'PREOWNED'

and downpayment > 5000;



9)

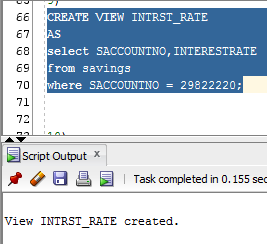
CREATE VIEW INTRST\_RATE

AS

select SACCOUNTNO,INTERESTRATE

from savings

where SACCOUNTNO = 29822220;



10)

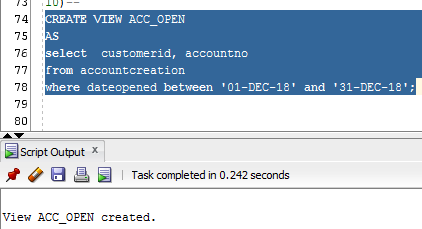
CREATE VIEW ACC\_OPEN

AS

select customerid, accountno

from accountcreation

where dateopened between '01-DEC-18' and '31-DEC-18';

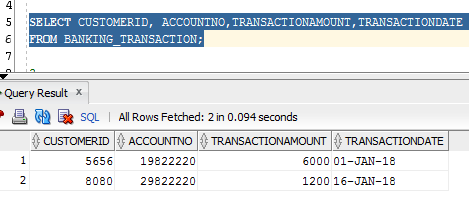


**Requirement #7 – Copy/Paste the EACH of the REPORTS & Screen Shot of the EXECUTION OF EACH REPORT in Oracle SQL Developer to the MS Word document Design & Implementation Document to SHOW PROOF That they were CREATED & EXECUTED.**

1)

SELECT CUSTOMERID, ACCOUNTNO,TRANSACTIONAMOUNT,TRANSACTIONDATE

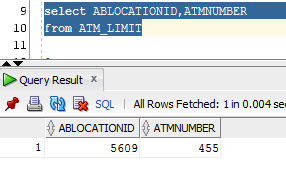
FROM BANKING\_TRANSACTION;



2)

select ABLOCATIONID,ATMNUMBER

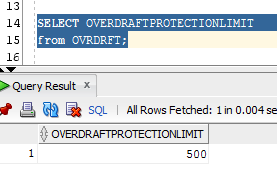
from ATM\_LIMIT;



3)

SELECT OVERDRAFTPROTECTIONLIMIT

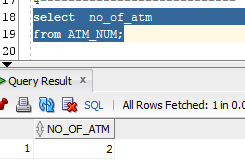
from OVRDRFT;



4)

select no\_of\_atm

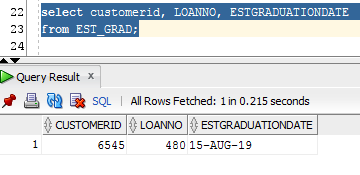
from ATM\_NUM;



5)

select customerid, LOANNO, ESTGRADUATIONDATE

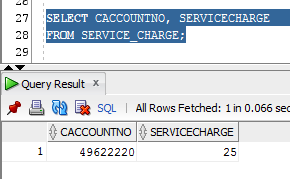
from EST\_GRAD;



6)

SELECT CACCOUNTNO, SERVICECHARGE

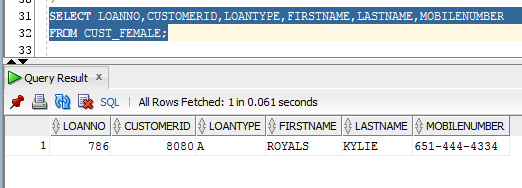
FROM SERVICE\_CHARGE;



7)

SELECT LOANNO,CUSTOMERID,LOANTYPE,FIRSTNAME,LASTNAME,MOBILENUMBER

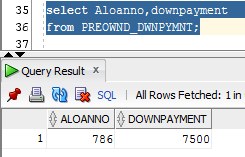
FROM CUST\_FEMALE;



8)

select Aloanno,downpayment

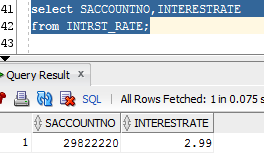
from PREOWND\_DWNPYMNT;



9)

select SACCOUNTNO,INTERESTRATE

from INTRST\_RATE;



10)

select customerid, accountno

from ACC\_OPEN;

