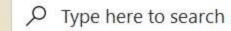```
Command Prompt - sqlplus

Microsoft Windows [Version 10.0.19045.2486]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Vishnu>sqlplus

SQL*Plus: Release 10.2.0.1.0 - Production on Mon Feb 6 17:01:16 2023

Copyright (c) 1982, 2005, Oracle. All rights reserved.

Enter user-name: scott
Enter password:

Connected to:
Oracle Database 10g Enterprise Edition Release 10.2.0.1.0 - Production
With the Partitioning, OLAP and Data Mining options

SQL> -- Pre-requisite
SQL> SET LINESIZE 200;
SQL> SET PAGESIZE 40;
SQL>
SQL> -- Question 1
SQL> DROP TABLE Agent;

Table dropped.

SQL> DROP TABLE Orders;
DROP TABLE Orders
        *
ERROR at line 1:
ORA-00942: table or view does not exist

SQL>
SQL> CREATE TABLE Agent(agent_code varchar(5), agent_name varchar(10), working_area varchar(15), commision number(2,2), phone_no varchar(10), country varchar(10));

Table created.

SQL> CREATE TABLE Orders(ord_num varchar(3), ord_amount number, advance_amount number, ord_date date, cust_code varchar(4), agent_code varchar(5), description varchar(20));

Table created.

SQL> INSERT ALL
  2   INTO Agent(agent_code, agent_name, working_area, commision, phone_no, country) VALUES ('Ac001','Ramesh','Bangalore',.15,'0331234567','India')
  3   INTO Agent(agent_code, agent_name, working_area, commision, phone_no, country) VALUES ('Ac002','Dinesh','Bangalore',.25,'0331234568',NULL)
  4   INTO Agent(agent_code, agent_name, working_area, commision, phone_no, country) VALUES ('Ac003','Suresh','Mumbai',.35,'0331234569','London')
  5   INTO Agent(agent_code, agent_name, working_area, commision, phone_no, country) VALUES ('Ac004','Kamlesh','New Jersey',.68,'0331234564',NULL)
  6   INTO Agent(agent_code, agent_name, working_area, commision, phone_no, country) VALUES ('Ac005','Kartik','Chennai',.73,'0331234563','India')
  7 SELECT * FROM dual;

5 rows created.
```

```
5 rows created.

SQL> INSERT ALL
  2      INTO Orders(ord_num, ord_amount, advance_amount, ord_date, cust_code, agent_code, description) VALUES ('004', 200, 3000, '15-aug-2020', 'C004', 'Ac001', 'Masala Kulcha')
  3      INTO Orders(ord_num, ord_amount, advance_amount, ord_date, cust_code, agent_code, description) VALUES ('007', 600, 5000, '17-sep-2020', 'C006', 'Ac003', 'Biriyani')
  4      INTO Orders(ord_num, ord_amount, advance_amount, ord_date, cust_code, agent_code, description) VALUES ('008', 700, 100, '19-feb-2019', 'C007', 'Ac005', NULL)
  5      INTO Orders(ord_num, ord_amount, advance_amount, ord_date, cust_code, agent_code, description) VALUES ('009', 10000, 600, '21-mar-2010', 'C009', 'Ac008', 'Masala Dosa')
  6      INTO Orders(ord_num, ord_amount, advance_amount, ord_date, cust_code, agent_code, description) VALUES ('010', 20, 600, '21-apr-2012', 'C006', 'Ac005', NULL)
  7  SELECT * FROM dual;

5 rows created.

SQL>
SQL> SELECT * FROM Agent;

AGENT AGENT_NAME WORKING_AREA     COMMISION PHONE_NO   COUNTRY
----- ---------- ---------------- ---------- ---------- ----------

Ac001 Ramesh     Bangalore             .15 0331234567 India
Ac002 Dinesh     Bangalore             .25 0331234568
Ac003 Suresh     Mumbai                .35 0331234569 London
Ac004 Kamlesh    New Jersey            .68 0331234564
Ac005 Kartik     Chennai               .73 0331234563 India

SQL> SELECT * FROM Orders;

ORD ORD_AMOUNT ADVANCE_AMOUNT ORD_DATE  CUST AGENT DESCRIPTION
--- ---------- -------------- --------- ---- ----- --------------------
004        200           3000 15-AUG-20 C004 Ac001 Masala Kulcha
007        600           5000 17-SEP-20 C006 Ac003 Biriyani
008        700            100 19-FEB-19 C007 Ac005
009      10000            600 21-MAR-10 C009 Ac008 Masala Dosa
010         20            600 21-APR-12 C006 Ac005

SQL>
SQL> SELECT ord_num, ord_amount, ord_date, cust_code, agent_code FROM Orders WHERE agent_code IN (SELECT agent_code FROM Agent WHERE (working_area = 'Bangalore'));

ORD ORD_AMOUNT ORD_DATE  CUST AGENT
--- ---------- --------- ---- -----
004        200 15-AUG-20 C004 Ac001

SQL> SELECT ord_num, ord_amount, ord_date, cust_code, agent_code FROM Orders WHERE agent_code IN (SELECT agent_code FROM Agent WHERE (agent_name = 'Ramesh'));

ORD ORD_AMOUNT ORD_DATE  CUST AGENT
--- ---------- --------- ---- -----
004        200 15-AUG-20 C004 Ac001

SQL>
SQL> DROP TABLE Agent;
```

```
SQL> DROP TABLE Agent;

Table dropped.

SQL> DROP TABLE Orders;

Table dropped.

SQL>
SQL> -- Question 2
SQL> DROP TABLE employees;
DROP TABLE employees
           *
ERROR at line 1:
ORA-00942: table or view does not exist


SQL>
SQL> CREATE TABLE employees(employee_id number(3,0), first_name varchar(10), last_name varchar(10), email varchar(15), phone_number varchar(10), hire_date date, job_id varchar(5), salary number, manager_id numbe
r, department_id number);

Table created.

SQL> INSERT ALL
  2      INTO employees(employee_id, first_name, last_name, email, phone_number, hire_date, job_id, salary, manager_id, department_id) VALUES (700, 'Hasmukh', 'Patel', 'hp@gmail.com', '7003216160','15-aug-2020',
'Hp003', 7000, NULL, 90)
  3      INTO employees(employee_id, first_name, last_name, email, phone_number, hire_date, job_id, salary, manager_id, department_id) VALUES (800, 'Kamlesh', 'Paul', 'kp@gmail.com', '7003216170','17-feb-2020','
Kp004', 8000, 506, 90)
  4      INTO employees(employee_id, first_name, last_name, email, phone_number, hire_date, job_id, salary, manager_id, department_id) VALUES (900, 'Dinesh', 'Gandhi', 'dp@yahoo', '9136278563','19-mar-2101','Dg0
06', 20000, 508, 80)
  5      INTO employees(employee_id, first_name, last_name, email, phone_number, hire_date, job_id, salary, manager_id, department_id) VALUES (701, 'Suresh', 'Modi', 'sm@dg.com', '9187653294','20-apr-2015','Sm00
9', 15000, NULL, 80)
  6  SELECT 1 from dual;

4 rows created.

SQL>
SQL> SELECT * FROM employees;

EMPLOYEE_ID FIRST_NAME LAST_NAME  EMAIL           PHONE_NUMB HIRE_DATE JOB_I     SALARY MANAGER_ID DEPARTMENT_ID
----------- ---------- ---------- --------------- ---------- --------- ----- ---------- ---------- -------------
        700 Hasmukh    Patel      hp@gmail.com    7003216160 15-AUG-20 Hp003       7000                       90
        800 Kamlesh    Paul       kp@gmail.com    7003216170 17-FEB-20 Kp004       8000        506            90
        900 Dinesh     Gandhi     dp@yahoo        9136278563 19-MAR-01 Dg006      20000        508            80
        701 Suresh     Modi       sm@dg.com       9187653294 20-APR-15 Sm009      15000                       80

SQL>
SQL> SELECT employee_id, manager_id, first_name, last_name FROM employees WHERE employee_id IN (SELECT employee_id FROM employees WHERE employee_id = manager_id);

no rows selected
```

```
SQL> SELECT employee_id, manager_id, first_name, last_name FROM employees WHERE manager_id != null;

no rows selected

SQL>
SQL> DROP TABLE employees;

Table dropped.

SQL>
SQL> -- Question 3
SQL> DROP TABLE salesman;
DROP TABLE salesman
           *
ERROR at line 1:
ORA-00942: table or view does not exist


SQL> DROP TABLE Orders;
DROP TABLE Orders
           *
ERROR at line 1:
ORA-00942: table or view does not exist


SQL>
SQL> CREATE TABLE salesman(salesman_id varchar(8), name varchar(15),city varchar(15),commission float);

Table created.

SQL> CREATE TABLE Orders(ord_no number, purch_amt number, ord_date date, customer_id varchar(5), salesman_id varchar(8));

Table created.

SQL> INSERT ALL
  2      INTO salesman(salesman_id, name ,city ,commission ) VALUES ('si123@06', 'Lakshmi', 'Kolkata', .5)
  3      INTO salesman(salesman_id, name ,city ,commission ) VALUES ('si123@09', 'Ganesh', 'London', .6)
  4      INTO salesman(salesman_id, name ,city ,commission ) VALUES ('si123@90', 'Dinesh', 'London', .3)
  5      INTO salesman(salesman_id, name ,city ,commission ) VALUES ('si123@10', 'Joseph', 'Chennai', .6)
  6      INTO salesman(salesman_id, name ,city ,commission ) VALUES ('si123@19', 'Mahesh', 'Hyderabad', .65)
  7      INTO salesman(salesman_id, name ,city ,commission ) VALUES ('si123@26', 'Paul Adam', 'London', .1)
  8      INTO salesman(salesman_id, name ,city ,commission ) VALUES ('si123@67', 'Rahul', 'Delhi', .4)
  9  SELECT 1 FROM dual;

7 rows created.

SQL> INSERT ALL
  2      INTO Orders(ord_no, purch_amt, ord_date, customer_id, salesman_id) VALUES (123, 600, '20-aug-2010', '003cd', 'si123@19')
  3      INTO Orders(ord_no, purch_amt, ord_date, customer_id, salesman_id) VALUES (576, 750, '20-feb-2018', '004cd', 'si123@19')
  4      INTO Orders(ord_no, purch_amt, ord_date, customer_id, salesman_id) VALUES (579, 800, '20-may-2012', '004cd', 'si123@26')
```

```
SQL> INSERT ALL
  2      INTO salesman(salesman_id, name ,city ,commission ) VALUES ('si123@06', 'Lakshmi', 'Kolkata', .5)
  3      INTO salesman(salesman_id, name ,city ,commission ) VALUES ('si123@09', 'Ganesh', 'London', .6)
  4      INTO salesman(salesman_id, name ,city ,commission ) VALUES ('si123@90', 'Dinesh', 'London', .3)
  5      INTO salesman(salesman_id, name ,city ,commission ) VALUES ('si123@10', 'Joseph', 'Chennai', .6)
  6      INTO salesman(salesman_id, name ,city ,commission ) VALUES ('si123@19', 'Mahesh', 'Hyderabad', .65)
  7      INTO salesman(salesman_id, name ,city ,commission ) VALUES ('si123@26', 'Paul Adam', 'London', .1)
  8      INTO salesman(salesman_id, name ,city ,commission ) VALUES ('si123@67', 'Rahul', 'Delhi', .4)
  9  SELECT 1 FROM dual;

7 rows created.

SQL> INSERT ALL
  2      INTO Orders(ord_no, purch_amt, ord_date, customer_id, salesman_id) VALUES (123, 600, '20-aug-2010', '003cd', 'si123@19')
  3      INTO Orders(ord_no, purch_amt, ord_date, customer_id, salesman_id) VALUES (576, 750, '20-feb-2018', '004cd', 'si123@19')
  4      INTO Orders(ord_no, purch_amt, ord_date, customer_id, salesman_id) VALUES (579, 800, '20-may-2012', '004cd', 'si123@26')
  5      INTO Orders(ord_no, purch_amt, ord_date, customer_id, salesman_id) VALUES (600, 60000, '20-jan-2021', '006cd', 'si123@10')
  6      INTO Orders(ord_no, purch_amt, ord_date, customer_id, salesman_id) VALUES (700, 745, '26-jan-2021', '007cd', 'si123@09')
  7      INTO Orders(ord_no, purch_amt, ord_date, customer_id, salesman_id) VALUES (800, 860, '29-jan-2019', '007cd', 'si123@26')
  8  SELECT 1 FROM dual;

6 rows created.

SQL>
SQL> SELECT * FROM salesman;

SALESMAN NAME            CITY             COMMISSION
-------- ---------------- ---------------- ----------
si123@06 Lakshmi          Kolkata                 .5
si123@09 Ganesh           London                  .6
si123@90 Dinesh           London                  .3
si123@10 Joseph           Chennai                 .6
si123@19 Mahesh           Hyderabad              .65
si123@26 Paul Adam        London                  .1
si123@67 Rahul            Delhi                   .4

7 rows selected.

SQL> SELECT * FROM Orders;

    ORD_NO  PURCH_AMT ORD_DATE  CUSTO SALESMAN
---------- ---------- --------- ----- --------
       123        600 20-AUG-10 003cd si123@19
       576        750 20-FEB-18 004cd si123@19
       579        800 20-MAY-12 004cd si123@26
       600      60000 20-JAN-21 006cd si123@10
       700        745 26-JAN-21 007cd si123@09
       800        860 29-JAN-19 007cd si123@26
```

```
Command Prompt - sqlplus

SQL> SELECT * FROM Orders;

    ORD_NO  PURCH_AMT ORD_DATE  CUSTO SALESMAN
---------- ---------- --------- ----- --------
       123        600 20-AUG-10 003cd si123@19
       576        750 20-FEB-18 004cd si123@19
       579        800 20-MAY-12 004cd si123@26
       600      60000 20-JAN-21 006cd si123@10
       700        745 26-JAN-21 007cd si123@09
       800        860 29-JAN-19 007cd si123@26

6 rows selected.

SQL>
SQL> SELECT * FROM Orders WHERE salesman_id IN (SELECT salesman_id FROM salesman WHERE name = 'Paul Adam');

    ORD_NO  PURCH_AMT ORD_DATE  CUSTO SALESMAN
---------- ---------- --------- ----- --------
       800        860 29-JAN-19 007cd si123@26
       579        800 20-MAY-12 004cd si123@26

SQL> SELECT * FROM Orders WHERE salesman_id IN (SELECT salesman_id FROM salesman WHERE city = 'London');

    ORD_NO  PURCH_AMT ORD_DATE  CUSTO SALESMAN
---------- ---------- --------- ----- --------
       700        745 26-JAN-21 007cd si123@09
       800        860 29-JAN-19 007cd si123@26
       579        800 20-MAY-12 004cd si123@26

SQL>
SQL> DROP TABLE salesman;

Table dropped.

SQL> DROP TABLE Orders;

Table dropped.

SQL>
```