**WORKSHEET 2**

**Student Name:** Vivek Kumar **UID:** 21BCS8129

**DOMAIN CAMP:** 16-01-2023 to 28-01-2023 **Section/Group:** DWWC-77

**Subject Name:** Database Management System

# Question1. Consider the following tables of employees for years 2018 and 2019 employees\_2018

EMPLOYEE\_ID EMPLOYEE\_NAME JOB MANAGER\_ID HIREDATE SALARY

COMMISSION DEPARTMENT\_ID

7369 SMITH CLERK 7902 17-DEC-80 800 - 20

7499 ALLEN SALESMAN 7698 20-FEB-81 1600 300 30

7521 WARD SALESMAN 7698 22-FEB-81 1250 500 30

7566 JONES MANAGER 7839 02-APR-81 2975 - 20

7654 MARTIN SALESMAN 7698 28-SEP-81 1250 1400 30

7698 BLAKE MANAGER 7839 01-MAY-81 2850 - 30

7782 CLARK MANAGER 7839 09-JUN-81 2450 - 10 employees\_2019

EMPLOYEE\_ID EMPLOYEE\_NAME JOB MANAGER\_ID HIREDATE SALARY

COMMISSION DEPARTMENT\_ID

7788 SCOTT ANALYST 7566 19-APR-87 3000 - 20

7839 KING PRESIDENT - 17-NOV-81 5000 - 10

7844 TURNER SALESMAN 7698 08-SEP-81 1500 0 30

7876 ADAMS CLERK 7788 23-MAY-87 1100 - 20

7900 JAMES CLERK 7698 03-DEC-81 950 - 30

7902 FORD ANALYST 7566 03-DEC-81 3000 - 20

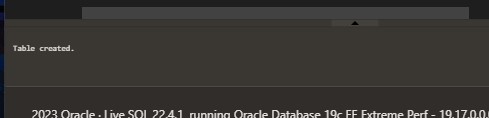
7934 MILLER CLERK 7782 23-JAN-82 1300 - 10

7369 SMITH CLERK 7902 17-DEC-80 800 - 20

1. Write a sql query to find list of distinct employees from both the tables working in department having department\_id=20
2. Write a sql query to find list of employees from both the tables working in department having department\_id=20
3. Write a sql query to find the list of employees common in both the tables
4. Write a sql query to implement minus operator

**Solution:**

CREATE TABLE employees\_2018(employee\_id NUMBER(4), employee\_name VARCHAR2(10), job VARCHAR2(9), manager\_id NUMBER(4), hiredate DATE, salary NUMBER(7,2), commission NUMBER(7,2), department\_id NUMBER(2));



INSERT INTO employees\_2018 VALUES (7369,'SMITH','CLERK',7902,to\_date('17-12-1980','dd-mm-yyyy'),800,NULL,20);

INSERT INTO employees\_2018 VALUES (7499,'ALLEN','SALESMAN',7698,to\_date('20-2-1981','dd-mm-yyyy'),1600,300,30);

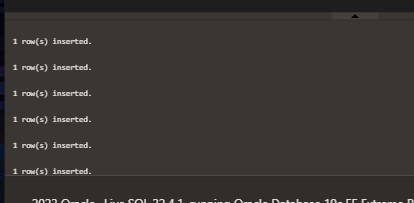
INSERT INTO employees\_2018 VALUES (7521,'WARD','SALESMAN',7698,to\_date('22-2-1981','dd-mm-yyyy'),1250,500,30);

INSERT INTO employees\_2018 VALUES (7566,'JONES','MANAGER',7839,to\_date('2-4-1981','dd-mm-yyyy'),2975,NULL,20);

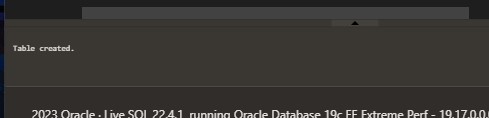
INSERT INTO employees\_2018 VALUES (7654,'MARTIN','SALESMAN',7698,to\_date('28-9-1981','dd-mm-yyyy'),1250,1400,30);

INSERT INTO employees\_2018 VALUES (7698,'BLAKE','MANAGER',7839,to\_date('1-5-1981','dd-mm-yyyy'),2850,NULL,30);

INSERT INTO employees\_2018 VALUES (7782,'CLARK','MANAGER',7839,to\_date('9-6-1981','dd-mm-yyyy'),2450,NULL,10);



CREATE TABLE employees\_2019(employee\_id NUMBER(4), employee\_name VARCHAR2(10), job VARCHAR2(9), manager\_id NUMBER(4), hiredate DATE, salary NUMBER(7,2), commission NUMBER(7,2), department\_id NUMBER(2));



INSERT INTO employees\_2019 VALUES (7788,'SCOTT','ANALYST',7566,to\_date('13-JUL-87','dd-mm-rr')85,3000,NULL,20);

INSERT INTO employees\_2019 VALUES (7839,'KING','PRESIDENT',NULL,to\_date('17-11-1981','dd-mmyyyy'),5000,NULL,10);

INSERT INTO employees\_2019 VALUES (7844,'TURNER','SALESMAN',7698,to\_date('8-9-1981','dd-mmyyyy'),1500,0,30);

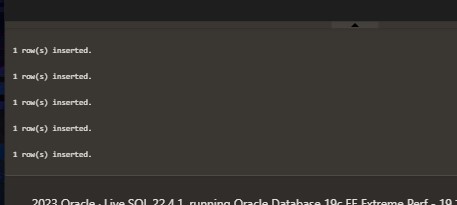
INSERT INTO employees\_2019 VALUES (7876,'ADAMS','CLERK',7788,to\_date('13-JUL-87', 'dd-mm-rr')51,1100,NULL,20);

INSERT INTO employees\_2019 VALUES (7900,'JAMES','CLERK',7698,to\_date('3-12-1981','dd-mmyyyy'),950,NULL,30);

INSERT INTO employees\_2019 VALUES (7902,'FORD','ANALYST',7566,to\_date('3-12-1981','dd-mmyyyy'),3000,NULL,20);

INSERT INTO employees\_2019 VALUES (7934,'MILLER','CLERK',7782,to\_date('23-1-1982','dd-mmyyyy'),1300,NULL,10);

INSERT INTO employees\_2019 VALUES (7369,'SMITH','CLERK',7902,to\_date('17-12-1980','dd-mmyyyy'),800,NULL,20);



SELECT employee\_id,employee\_name,job,salary from employees\_2018 WHERE department\_id = 20 UNION SELECT employee\_id,employee\_name,job,salary from employees\_2019 WHERE department\_id = 20



SELECT employee\_id,employee\_name,job,salary from employees\_2018 WHERE department\_id = 20 UNION ALL SELECT employee\_id,employee\_name,job,salary from employees\_2019 WHERE department\_id = 20



SELECT employee\_id,employee\_name,job,salary from employees\_2018 WHERE department\_id = 20 INTERSECT SELECT employee\_id,employee\_name,job,salary from employees\_2019 WHERE department\_id = 20



SELECT employee\_id,employee\_name,job,salary from employees\_2018 WHERE department\_id = 20 MINUS SELECT employee\_id,employee\_name,job,salary from employees\_2019 WHERE department\_id = 20



# Question2. For the given table

ord\_no purch\_amt ord\_date customer\_id salesman\_id

---------- ---------- ---------- ----------- ----------- 70001 150.5 2012-10-05 3005 5002

70009 270.65 2012-09-10 3001 5005

70002 65.26 2012-10-05 3002 5001

70004 110.5 2012-08-17 3009 5003

70007 948.5 2012-09-10 3005 5002

70005 2400.6 2012-07-27 3007 5001

70008 5760 2012-09-10 3002 5001

70010 1983.43 2012-10-10 3004 5006

70003 2480.4 2012-10-10 3009 5003

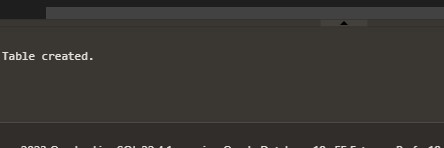
70012 250.45 2012-06-27 3008 5002

70011 75.29 2012-08-17 3003 5007 70013 3045.6 2012-04-25 3002 5001

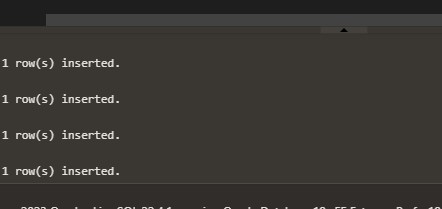
1. Write a SQL statement to find the highest purchase amount ordered by the each customer with their ID and highest purchase amount.
2. Write a SQL statement to find the highest purchase amount ordered by the each customer on a particular order date with their ID,
3. Write a SQL statement to find the highest purchase amount with their ID and order date, for only those customers who have highest purchase amount in a day is more than 2000.
4. Write a SQL statement to find the highest purchase amount with their ID and order date, for only those customers who have a higher purchase amount in a day is within the list 2000, 3000, 5760 and 6000.

**Solution:**

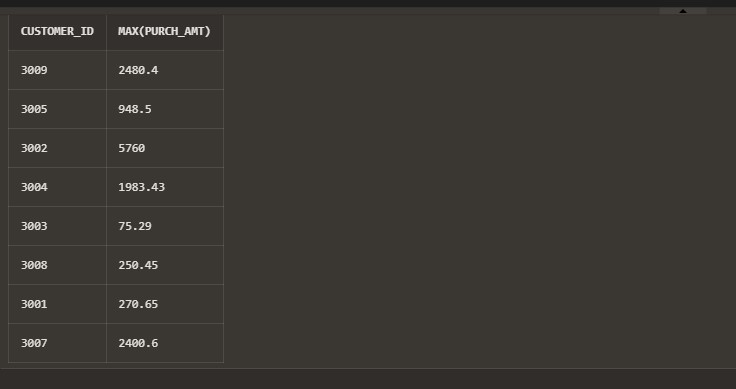
Create Table orders(order\_no number, purch\_amt number(6,2), ord\_date date, customer\_id number, salesman\_id number);



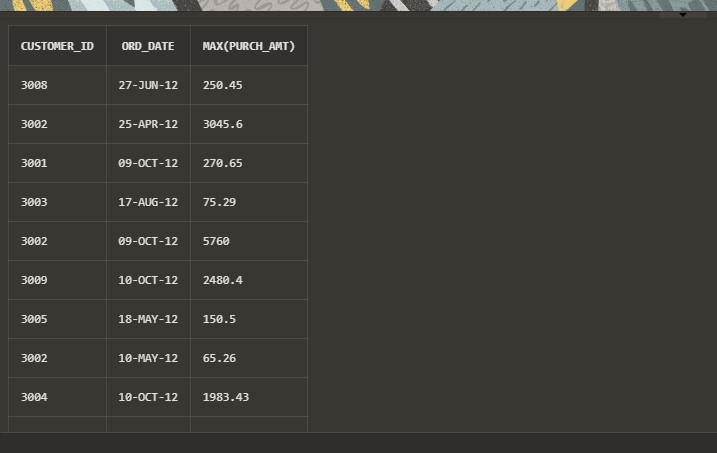
insert into orders values(70001, 150.5, to\_date('18-05-2012', 'DD-MM-YYYY'),3005, 5002); insert into orders values(70009, 270.65, to\_date('09-10-2012', 'DD-MM-YYYY'),3001, 5005); insert into orders values(70002, 65.26, to\_date('10-05-2012', 'DD-MM-YYYY'),3002, 5001); insert into orders values(70004, 110.5,to\_date( '18-08-2012', 'DD-MM-YYYY'),3009, 5003); insert into orders values(70007, 948.5, to\_date('09-10-2012', 'DD-MM-YYYY'),3005, 5002); insert into orders values(70005, 2400.6,to\_date( '27-07-2012', 'DD-MM-YYYY'),3007, 5001); insert into orders values(70008, 5760,to\_date( '09-10-2012', 'DD-MM-YYYY'),3002, 5001); insert into orders values(70010, 1983.43,to\_date( '10-10-2012','DD-MM-YYYY'), 3004, 5006); insert into orders values(70003, 2480.4, to\_date('10-10-2012', 'DD-MM-YYYY'),3009, 5003); insert into orders values(70012, 250.45, to\_date('27-06-2012', 'DD-MM-YYYY'),3008, 5002); insert into orders values(70011, 75.29, to\_date('17-08-2012', 'DD-MM-YYYY'),3003, 5007); insert into orders values(70013, 3045.6,to\_date( '25-04-2012', 'DD-MM-YYYY'),3002, 5001);



SELECT customer\_id,MAX(purch\_amt) FROM orders GROUP BY customer\_id;



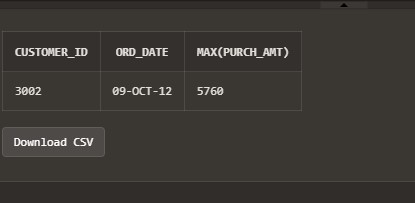
SELECT customer\_id,ord\_date,MAX(purch\_amt) FROM orders GROUP BY customer\_id,ord\_date;



SELECT customer\_id, ord\_date, MAX(purch\_amt) FROM orders GROUP BY customer\_id,ord\_date HAVING MAX(purch\_amt)>2000.00;



SELECT customer\_id,ord\_date,MAX(purch\_amt) FROM orders GROUP BY customer\_id,ord\_date HAVING MAX(purch\_amt) IN(2000 ,3000,5760, 6000);



**Question3. Consider the following schema**

|CUST\_CODE | CUST\_NAME | CUST\_CITY | WORKING\_AREA | CUST\_COUNTRY | GRADE |

OPENING\_AMT | RECEIVE\_AMT | PAYMENT\_AMT |OUTSTANDING\_AMT| PHONE\_NO | AGENT\_CODE |

+-----------+-------------+-------------+--------------+--------------+-------+-------------+-------------+-------------+---------------+--

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| C00013 | Holmes | London | London | UK | 2 | 6000.00 | 5000.00 | 7000.00 | 4000.00 | BBBBBBB | A003 |

| C00001 | Micheal | New York | New York | USA | 2 | 3000.00 | 5000.00 | 2000.00 | 6000.00 | CCCCCCC | A008 |

| C00020 | Albert | New York | New York | USA | 3 | 5000.00 | 7000.00 | 6000.00 | 6000.00 | BBBBSBB | A008 |

| C00025 | Ravindran | Bangalore | Bangalore | India | 2 | 5000.00 | 7000.00 | 4000.00 | 8000.00 | AVAVAVA | A011 |

| C00024 | Cook | London | London | UK | 2 | 4000.00 | 9000.00 | 7000.00 | 6000.00 | FSDDSDF | A006 |

| C00015 | Stuart | London | London | UK | 1 | 6000.00 | 8000.00 | 3000.00 | 11000.00 | GFSGERS | A003 |

| C00002 | Bolt | New York | New York | USA | 3 | 5000.00 | 7000.00 | 9000.00 | 3000.00 | DDNRDRH | A008 |

| C00018 | Fleming | Brisban | Brisban | Australia | 2 | 7000.00 | 7000.00 | 9000.00 | 5000.00 | NHBGVFC | A005 |

| C00021 | Jacks | Brisban | Brisban | Australia | 1 | 7000.00 | 7000.00 | 7000.00 | 7000.00 | WERTGDF | A005 |

| C00019 | Yearannaidu | Chennai | Chennai | India | 1 | 8000.00 | 7000.00 | 7000.00 | 8000.00 | ZZZZBFV | A010 |

| C00005 | Sasikant | Mumbai | Mumbai | India | 1 | 7000.00 | 11000.00 | 7000.00 | 11000.00 | 147-25896312 | A002 |

| C00007 | Ramanathan | Chennai | Chennai | India | 1 | 7000.00 | 11000.00 | 9000.00 | 9000.00 | GHRDWSD | A010 |

| C00022 | Avinash | Mumbai | Mumbai | India | 2 | 7000.00 | 11000.00 | 9000.00 | 9000.00 | 113-12345678 | A002 |

| C00004 | Winston | Brisban | Brisban | Australia | 1 | 5000.00 | 8000.00 | 7000.00 | 6000.00 |

AAAAAAA | A005 |

| C00023 | Karl | London | London | UK | 0 | 4000.00 | 6000.00 | 7000.00 | 3000.00 | AAAABAA | A006 |

| C00006 | Shilton | Torento | Torento | Canada | 1 | 10000.00 | 7000.00 | 6000.00 | 11000.00 | DDDDDDD | A004 |

| C00010 | Charles | Hampshair | Hampshair | UK | 3 | 6000.00 | 4000.00 | 5000.00 | 5000.00 | MMMMMMM | A009 |

| C00017 | Srinivas | Bangalore | Bangalore | India | 2 | 8000.00 | 4000.00 | 3000.00 | 9000.00 | AAAAAAB | A007 |

| C00012 | Steven | San Jose | San Jose | USA | 1 | 5000.00 | 7000.00 | 9000.00 | 3000.00 | KRFYGJK | A012 |

| C00008 | Karolina | Torento | Torento | Canada | 1 | 7000.00 | 7000.00 | 9000.00 | 5000.00 | HJKORED | A004 |

| C00003 | Martin | Torento | Torento | Canada | 2 | 8000.00 | 7000.00 | 7000.00 | 8000.00 | MJYURFD | A004 |

| C00009 | Ramesh | Mumbai | Mumbai | India | 3 | 8000.00 | 7000.00 | 3000.00 | 12000.00 |

Phone No | A002 |

| C00014 | Rangarappa | Bangalore | Bangalore | India | 2 | 8000.00 | 11000.00 | 7000.00 | 12000.00 | AAAATGF | A001 |

| C00016 | Venkatpati | Bangalore | Bangalore | India | 2 | 8000.00 | 11000.00 | 7000.00 | 12000.00 | JRTVFDD | A007 |

| C00011 | Sundariya | Chennai | Chennai | India | 3 | 7000.00 | 11000.00 | 7000.00 | 11000.00 | PPHGRTS | A010 |

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1. Write sql command to get data of 'cust\_code', 'cust\_name', 'cust\_city', 'cust\_country' and 'grade' from the 'customer' table with following conditions -

1.'cust\_country' is ’UK',

2.and 'cust\_city' is 'London',

3.and 'grade' of the 'customer' must be greater than 1,

1. Write SQL command to get data of 'cust\_code', 'cust\_name', 'cust\_city', 'cust\_country' and 'grade' from the 'customer' table with following conditions -

WHERE (cust\_country = ’UK’ or cust\_city = 'London') AND,

and GRADE <> 3

1. Write sql query to To get data of 'cust\_code', 'cust\_name', 'cust\_city', 'cust\_country' and 'grade' from the 'customer' table with following conditions -

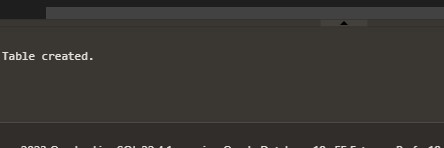
1.'cust\_country' is other than 'India',

2.and 'grade' of the 'customer' must be 3,

**Solution:**

Create TABLE customer\_details(CUST\_CODE varchar(15), CUST\_NAME varchar(50), CUST\_CITY varchar(50),

WORKING\_AREA varchar(50), CUST\_COUNTRY varchar(50), GRADE NUMBER, OPENING\_AMT float, RECEIVE\_AMT float, PAYMENT\_AMT float, OUTSTANDING\_AMT float, PHONE\_NO varchar(20), AGENT\_CODE varchar(10));



select \* from customer\_details;

INSERT ALL

INTO customer\_details VALUES

('C00013','Holmes','London','London','UK',2,6000.00,5000.00,7000.00,4000.00,'BBBBBBB','A003')

INTO customer\_details VALUES ('C00001','Micheal','New York','New

York','USA',2,3000.00,5000.00,2000.00,6000.00,'CCCCCCC','A008')

INTO customer\_details VALUES ('C00020','Albert','New York','New

York','USA',3,5000.00,7000.00,6000.00,6000.00,'BBBBSBB','A008')

INTO customer\_details VALUES

('C00025','Ravindran','Bangalore','Bangalore','India',2,5000.00,7000.00,4000.00,8000.00,'AVAVAVA','A011') INTO customer\_details VALUES

('C00024','Cook','London','London','UK',2,4000.00,9000.00,7000.00,6000.00,'FSDDSDF','A006') INTO customer\_details VALUES

('C00015','Stuart','London','London','UK',1,6000.00,8000.00,3000.00,11000.00,'GFSGERS','A003')

INTO customer\_details VALUES ('C00002','Bolt','New York','New

York','USA',3,5000.00,7000.00,9000.00,3000.00,'DDNRDRH','A008')

INTO customer\_details VALUES

('C00018','Fleming','Brisban','Brisban','Australia',2,7000.00,7000.00,9000.00,5000.00,'NHBGVFC','A005') INTO customer\_details VALUES

('C00021','Jacks','Brisban','Brisban','Australia',1,7000.00,7000.00,7000.00,7000.00,'WERTGDF','A005') INTO customer\_details VALUES ('C00019

','Yearannaidu','Chennai','Chennai','India',1,8000.00,7000.00,7000.00,8000.00,'ZZZZBFV','A010')

INTO customer\_details VALUES

('C00005','Sasikant','Mumbai','Mumbai','India',1,7000.00,11000.00,7000.00,11000.00,'147-25896312','A002') INTO customer\_details VALUES

('C00007','Ramanathan','Chennai','Chennai','India',1,7000.00,11000.00,9000.00,9000.00,'GHRDWSD','A010')

INTO customer\_details VALUES ('C00022','Avinash','Mumbai','Mumbai','India',2,7000.00,11000.00,9000.00,9000.00,' 113-12345678','A002')

INTO customer\_details VALUES

('C00004','Winston','Brisban','Brisban','Australia',1,5000.00,8000.00,7000.00,6000.00,'AAAAAAA','A005') INTO customer\_details VALUES

('C00023','Karl','London','London','UK',0,4000.00,6000.00,7000.00,3000.00,'AAAABAA','A006') INTO customer\_details VALUES

('C00006','Shilton','Torento','Torento','Canada',1,10000.00,7000.00,6000.00,11000.00,'DDDDDDD','A004') INTO customer\_details VALUES

('C00010','Charles','Hampshair','Hampshair','UK',3,6000.00,4000.00,5000.00,5000.00,'MMMMMMM','A009') INTO customer\_details VALUES

('C00017','Srinivas','Bangalore','Bangalore','India',2,8000.00,4000.00,3000.00,9000.00,'AAAAAAB','A007')

INTO customer\_details VALUES ('C00012','Steven','San Jose','San

Jose','USA',1,5000.00,7000.00,9000.00,3000.00,'KRFYGJK','A012')

INTO customer\_details VALUES

('C00008','Karolina','Torento','Torento','Canada',1,7000.00,7000.00,9000.00,5000.00,'HJKORED','A004') INTO customer\_details VALUES

('C00003','Martin','Torento','Torento','Canada',2,8000.00,7000.00,7000.00,8000.00,'MJYURFD','A004')

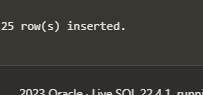
INTO customer\_details VALUES ('C00009','Ramesh','Mumbai','Mumbai','India',3,8000.00,7000.00,3000.00,12000.00,' 113-1263343','A002')

INTO customer\_details VALUES

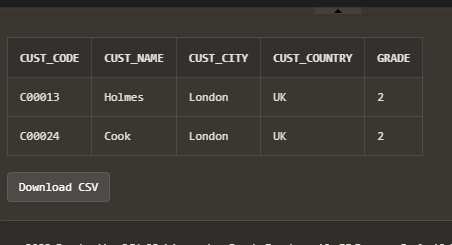
('C00014','Rangarappa','Bangalore','Bangalore','India',2,8000.00,11000.00,7000.00,12000.00,' AAAATGF','A001') INTO customer\_details VALUES

('C00016','Venkatpati','Bangalore','Bangalore','India',2,8000.00,11000.00,7000.00,12000.00,' JRTVFDD','A007') INTO customer\_details VALUES

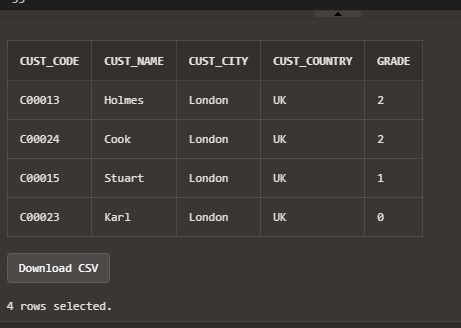
('C00011','Sundariya','Chennai','Chennai','India',3,8000.00,11000.00,7000.00,11000.00,' PPHGRTS','A010') select \* from dual;



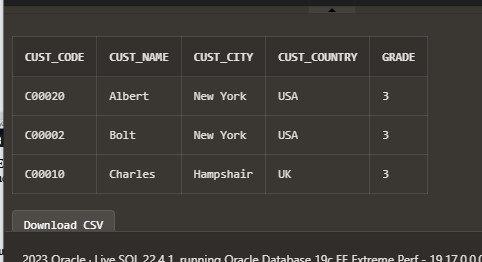
SELECT cust\_code,cust\_name,cust\_city,cust\_country,grade FROM customer\_details WHERE cust\_country='UK' AND cust\_city='London' AND grade>1;



SELECT cust\_code, cust\_name, cust\_city, cust\_country, grade FROM customer\_details WHERE (cust\_country = 'UK' OR cust\_city = 'London') AND grade < > 3;



SELECT cust\_code, cust\_name, cust\_city, cust\_country, grade FROM customer\_details WHERE NOT cust\_country = 'India' AND grade = 3;



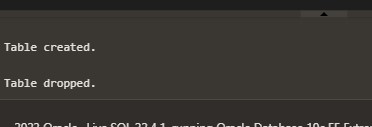
**Question4. Implement flashback and purge command**

**Solution:**

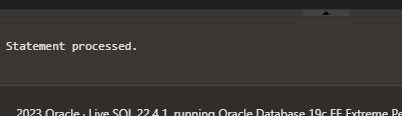
a) Flashback command

It is used to recover a dropped table. Drop table <tablename>.Flashback table <tablename> to before drop.

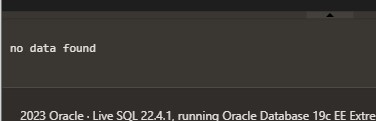
create table sample (name varchar(20)); drop table sample



flashback table sample to before drop

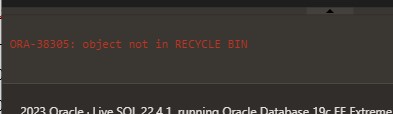


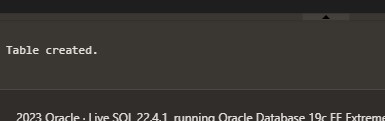
select \* from sample

 b) Purge command

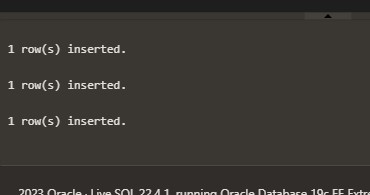
To permanently delete a table. Table will not be saved in recycle bin from where otherwise it could have been recovered using flashback command.Drop table <tablename> purgedrop table sample purge

flashback table sample to before drop;

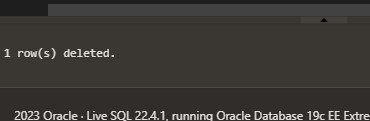
 c) Timestamp create table sample(name varchar(20));



insert into sample values('Armaan'); insert into sample values('Mehak'); insert into sample values('Nirvaan');

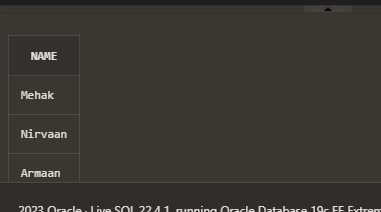


delete from sample where name = 'Armaan'



**To insert the deleted record 2 mins back, we use**

INSERT INTO sample (SELECT \* FROM sample AS OF TIMESTAMP (SYSTIMESTAMP - INTERVAL '10' SECOND)) MINUS (SELECT \* FROM sample); **Deleted record recovered** select \* from sample



# Question5. Consider the schema

ord\_no purch\_amt ord\_date customer\_id salesman\_id

---------- ---------- ---------- ----------- ----------- 70001 150.5 2012-10-05 3005 5002

70009 270.65 2012-09-10 3001 5005

70002 65.26 2012-10-05 3002 5001

70004 110.5 2012-08-17 3009 5003

70007 948.5 2012-09-10 3005 5002

70005 2400.6 2012-07-27 3007 5001

70008 5760 2012-09-10 3002 5001

70010 1983.43 2012-10-10 3004 5006

70003 2480.4 2012-10-10 3009 5003

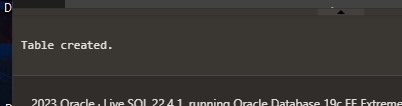
70012 250.45 2012-06-27 3008 5002

70011 75.29 2012-08-17 3003 5007 70013 3045.6 2012-04-25 3002 5001

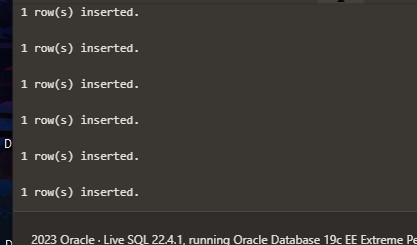
1. Write a SQL statement to display either those orders which are not issued on date 2012-09-10 and issued by the salesman whose ID is 5005 and below or those orders which purchase amount is 1000.00
2. Write a SQL statement to exclude the rows which satisfy 1) order dates are 2012-08-17 and purchase amount is below 1000 2) customer id is greater than 3005 and purchase amount is below 1000.

**Solution:**

Create Table orders(order\_no number, purch\_amt number(6,2), ord\_date date, customer\_id number, salesman\_id number);



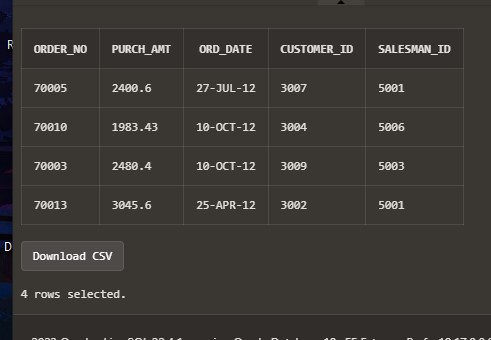
insert into orders values(70001, 150.5, to\_date('18-05-2012', 'DD-MM-YYYY'),3005, 5002); insert into orders values(70009, 270.65, to\_date('09-10-2012', 'DD-MM-YYYY'),3001, 5005); insert into orders values(70002, 65.26, to\_date('10-05-2012', 'DD-MM-YYYY'),3002, 5001); insert into orders values(70004, 110.5,to\_date( '18-08-2012', 'DD-MM-YYYY'),3009, 5003); insert into orders values(70007, 948.5, to\_date('09-10-2012', 'DD-MM-YYYY'),3005, 5002); insert into orders values(70005, 2400.6,to\_date( '27-07-2012', 'DD-MM-YYYY'),3007, 5001); insert into orders values(70008, 5760,to\_date( '09-10-2012', 'DD-MM-YYYY'),3002, 5001); insert into orders values(70010, 1983.43,to\_date( '10-10-2012','DD-MM-YYYY'), 3004, 5006); insert into orders values(70003, 2480.4, to\_date('10-10-2012', 'DD-MM-YYYY'),3009, 5003); insert into orders values(70012, 250.45, to\_date('27-06-2012', 'DD-MM-YYYY'),3008, 5002); insert into orders values(70011, 75.29, to\_date('17-08-2012', 'DD-MM-YYYY'),3003, 5007); insert into orders values(70013, 3045.6,to\_date( '25-04-2012', 'DD-MM-YYYY'),3002, 5001); select \* from orders;



SELECT \* FROM orders WHERE NOT (ord\_date ='09-OCT-2012') AND salesman\_id<=5005 OR purch\_amt=1000.00;



SELECT \* FROM orders WHERE NOT ord\_date ='09-OCT-2012' AND NOT purch\_amt<1000;



SELECT \* FROM orders WHERE NOT customer\_id>3005 AND NOT purch\_amt<1000;

