ASSESSMENT-3

NAME: ALOK SINHA

REG NO.: 17BCE2380

LAB: L21+L22

Create the following tables and insert the values emp_department DPT_CODE DPT_NAME DPT_ALLOTMENT

_	_	_	
57	IT	65000	
63	Finance	15000	
47	HR	240000	
27	RD	55000	
89	QC	75000	
emp_deta	ils		

EMP_IDNO EMP_FNAME EMP_LNAME EMP_DEPT

127323	Michale Robbin	57	
526689	Carlos Snares	63	
843795	Enric Dosio	57	
328717	Jhon Snares	63	
444527	Joseph Dosni	47	
659831	Zanifer Emily	47	
847674	Kuleswar Sitaran	nan	57
748681	Henrey Gabriel	47	
555935	Alex Manuel	57	
539569	George Mardy	27	
733843	Mario Saule	63	
631548	Alan Snappy	27	
839139	Maria Foster	57	

SQL*Plus: Release 11.2.0.1.0 Production on Thu Sep 06 09:46:52 2018

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Enter user-name: 17BCE2380@VITORA

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Oracle Database 11g Enterprise Edition Release 11.1.0.7.0 - Production

With the Partitioning, OLAP, Data Mining and Real Application Testing options

JOINS

SQL> CREATE TABLE EMP_DEPARTMENT (DPT_CODE NUMBER, DPT_NAME VARCHAR (20), DPT_ALLOTMENT NUMBER);

Table created.

SQL> SELECT * FROM EMP_DEPARTMENT;

DPT_CODE DPT_NAME DPT_ALLOTMENT

57 IT 65000 63 FINANCE 15000 47 HR 240000 27 RD 55000 89 QC 75000

SQL> CREATE TABLE EMP_DETAILS (EMP_IDNO NUMBER, EMP_FNAME VARCHAR (10), EMP_LNAME VARCHAR (10), EMP_DEPT NUMBER);

Table created.

EMP_DEPT

SQL> DESC EMP_DETAILS;

Name	Null?	Туре
EMP_IDNO		NUMBER
EMP_FNAME		VARCHAR2(10)
EMP_LNAME		VARCHAR2(10)

NUMBER

SQL> SELECT * FROM EMP_DETAILS;

EMP_IDNO EMP_FNAME EMP_LNAME EMP_DEPT

127323 MICHALE	ROBBIN	57
526689 CARLOS	SNARES	63
843795 ENRIC	DOSIO	57
328717 JHON	SNARES	63
444527 JOSEPH	DOSNI	47
659831 ZANIFER	EMILY	47
847674 KULESWA	r Sitarama	.N 57
748681 HENREY	GABRIEL	47
555935 ALEX N	MANUEL	57
539569 GEORGE	MARDY	27

13 rows selected.

1. Write a query in SQL to find the names of departments where more than two employees are working.

SQL> SELECT emp_department.dpt_name

- 2 FROM emp_details
- 3 INNER JOIN emp_department
- 4 ON emp_dept =dpt_code
- 5 GROUP BY emp_department.dpt_name
- 6 HAVING COUNT(*) > 2;

DPT_NAME
-----IT

HR

FINANCE

2. Write a query in SQL to find the first name and last name of employees working for departments with a budget more than Rs. 50000.

```
SQL> SELECT emp_fname, emp_lname
```

- 2 FROM emp_details
- 3 WHERE emp_dept IN
- 4 (SELECT dpt_code
- 5 FROM emp_department
- 6 WHERE dpt_allotment > 50000);

```
EMP_FNAME EMP_LNAME
```

MARIA FOSTER

ALEX MANUEL

KULESWAR SITARAMAN

ENRIC DOSIO

MICHALE ROBBIN

HENREY GABRIEL

ZANIFER EMILY

JOSEPH DOSNI

ALAN SNAPPY

GEORGE MARDY

10 rows selected.

3. Write a query in SQL to display the first name and last name of each employee, along with the department name and sanction amount for their department+

```
SELECT emp_details.emp_fname AS "First Name", emp_lname AS "Last Name", emp_department.dpt_name AS "Department", dpt_allotment AS "Amount Allotted"
```

FROM emp_details

INNER JOIN emp_department

ON emp_details.emp_dept = emp_department.dpt_code;

First Name	Last Name	Depar	tment Amount Allotted
MICHALE	ROBBIN	IT	65000
CARLOS	SNARES	FINANC	E 15000
ENRIC	DOSIO	IT	65000
JHON	SNARES	FINANCE	15000
JOSEPH	DOSANI	HR	240000
ZANIFER	EMILY	HR	240000
KULESWAR	SITARAM	AN IT	65000
HENREY	GABRIEL	HR	240000
ALEX	MANUEL	IT	65000
GEORGE	MARDY	RD	55000
MARIO	SAULE	FINANCE	15000
First Name	Last Name	Depar	tment Amount Allotted
ALAN	SNAPPY	RD	55000
MARIA	FOSTER	IT	65000

¹³ rows selected.

4. Write a query in SQL to display all the data of employees including their department.

SQL> SELECT emp_idno, A.emp_fname AS "First Name", emp_lname AS "Last Name",

- 2 B.dpt_name AS "Department", emp_dept, dpt_code, dpt_allotment
- 3 FROM emp_details A
- 4 INNER JOIN emp_department B
- 5 ON A.emp_dept = B.dpt_code;

EMP_IDNO First Name Last Name Department EMP_DEPT DPT_CODE

DPT_ALLOTMENT

127323 MICHALE ROBBIN IT 57 57

65000

526689 CARLOS SNARES FINANCE 63 63

15000

843795 ENRIC DOSIO IT 57 57

65000

DPT_ALLOTMENT

328717 JHON SNARES FINANCE 63 63

15000

444527 JOSEPH DOSANI HR 47 47

240000

659831 ZANIFER EMILY HR 47 47

240000

EMP_IDNO First Name Last Name Department EMP_DEPT DPT_CODE

DPT_ALLOTMENT

847674 KULESWAR SITARAMAN IT 57 57

65000

748681 HENREY GABRIEL HR 47 47

240000

555935 ALEX MANUEL IT 57 57

65000

DPT_ALLOTMENT

539569 GEORGE MARDY RD 27 27

55000

733843 MARIO SAULE FINANCE 63 63

15000

631548 ALAN SNAPPY RD 27 27

55000

DPT_ALLOTMENT
-----839139 MARIA FOSTER IT 57 57
65000
13 rows selected.

SUB QUERY PROBLEMS

1. Creation of the tables

SQL> CREATE TABLE booking (
2 id DECIMAL NOT NULL,
3 booking_number DECIMAL NOT NULL,
4 version DECIMAL NOT NULL,
5 state CHAR (10) NOT NULL,
6 enter_ts TIMESTAMP NOT NULL,
7 enter_by CHAR(20) NOT NULL,
8 CONSTRAINT booking_pk PRIMARY KEY (id),
9 CONSTRAINT booking_unique UNIQUE (booking_number, version)
10);

SQL> SELECT * FROM BOOKING;

ID BOOKING_NUMBER VERSION STATE	
ENTER_TS	
ENTER_BY	
1 4711 1 CREATED	
02-FEB-14 10.01.01.000000 AM	
EMILY	

03-FEB-14 11.10.01.000000 AM
EMILY
ID BOOKING_NUMBER VERSION STATE
ENTER_TS
ENTER_BY
3 4711 3 cancelled
10-FEB-14 09.01.01.000000 AM
John
4 4712 1 created
4 4712 1 created 10-MAR-14 12.12.12.000000 PM
10-MAR-14 12.12.12.000000 PM
10-MAR-14 12.12.12.000000 PM ID BOOKING_NUMBER VERSION STATE
10-MAR-14 12.12.12.000000 PM ID BOOKING_NUMBER VERSION STATE
10-MAR-14 12.12.12.000000 PM ID BOOKING_NUMBER VERSION STATE
10-MAR-14 12.12.12.000000 PM ID BOOKING_NUMBER VERSION STATE ENTER_TS
10-MAR-14 12.12.12.000000 PM ID BOOKING_NUMBER VERSION STATE ENTER_TS ENTER_BY
10-MAR-14 12.12.12.000000 PM ID BOOKING_NUMBER VERSION STATE ENTER_TS
10-MAR-14 12.12.12.000000 PM ID BOOKING_NUMBER VERSION STATE ENTER_TS
10-MAR-14 12.12.12.000000 PM ID BOOKING_NUMBER
10-MAR-14 12.12.12.000000 PM ID BOOKING_NUMBER VERSION STATE

6 4713 1 created

	_		VERSION STA	ΤΕ
ENTER_TS				
ENTER_B	Y			
11-MAR-1	 14 08.50.02	2.000000	АМ	
7	4713	2 can	celled	
12-MAR-1	14 08.40.12	2.000000	AM	
Emily				
ENTER_TS			VERSION STA	
ENTER_B				
8	4713	3 reo _l	oend	
13-MAR-1	L4 10.04.32	2.000000	AM	
Jack				
9	4713	4 deli	vered	
15-MAR-1	14 06.40.12	2.000000	AM	
Jack				
ID BC	OOKING_N	JMBER	VERSION STA	TE

ENTER_15		
ENTER_BY	 	
9 rows selected.		

2) ADDING VALUES TO THE TABLE

INSERT INTO booking VALUES (1, 4711, 1, 'created', TIMESTAMP'2014-02-02 10:01:01', 'Emily');

INSERT INTO booking VALUES (2, 4711, 2, 'modified', TIMESTAMP'2014-02-03 11:10:01',

'Emily');

INSERT INTO booking VALUES (3, 4711, 3, 'cancelled', TIMESTAMP'2014-02-10 09:01:01', 'John');

INSERT INTO booking VALUES (4, 4712, 1, 'created', TIMESTAMP'2014-03-10 12:12:12', 'Emily');

INSERT INTO booking VALUES (5, 4712, 2, 'delivered', TIMESTAMP'2014-03-12 06:01:00',

'Charles');

INSERT INTO booking VALUES (6, 4713, 1, 'created', TIMESTAMP'2014-03-11 08:50:02', 'Emily');

INSERT INTO booking VALUES (7, 4713, 2, 'cancelled', TIMESTAMP'2014-03-12 08:40:12',

'Emily');

INSERT INTO booking VALUES (8, 4713, 3, 'reopend', TIMESTAMP'2014-03-13 10:04:32', 'Jack');

INSERT INTO booking VALUES (9, 4713, 4, 'delivered', TIMESTAMP'2014-03-15 06:40:12', 'Jack');

3) PRACTISE THE FOLLOWING SUB QUERY

SQL> SELECT * FROM booking b

2 WHERE (booking_number, version) IN

3 (SELECT booking number, MAX(version) FROM booking sq GROUP BY

4 booking_number)		
5 ORDER BY booking_number;		
ID BOOKING_NUMBER VERSION STATE		
ENTER_TS		
ENTER_BY		
3 4711 3 cancelled		
10-FEB-14 09.01.01.000000 AM		
John		
5 4712 2 delivered		
12-MAR-14 06.01.00.000000 AM		
Charles		
ID BOOKING_NUMBER VERSION STATE		
ENTER_TS		
ENTED DV		
ENTER_BY		
9 4713 4 delivered		
15-MAR-14 06.40.12.000000 AM		
Jack		

b)SQL> SELECT * FROM booking b

2 WHERE version != (SELECT max(version) FROM booking sq WHERE

3 sq.booking_number =

4 b.booking_number) AND booking_number = 4711 ORDER BY version;

ID BOOKING_NUMBER VERSION STATE

ENTER_TS

.....

ENTER_BY

1 4711 1 CREATED

02-FEB-14 10.01.01.000000 AM

EMILY

2 4711 2 modified

03-FEB-14 11.10.01.000000 AM

EMILY

ENTER_TS
----ENTER_BY

4. DO THE FOLLOWING USING SUB QUERIES

A) FIND THE BOOKING WITH THE MOST VERSIONS.

SQL> SELECT *

2 FROM booking

3 WHERE version = (SELECT MAX (version) FROM booking);

ID BOOKING_NUMBER VERSION STATE

ENT	ER_TS			
ENT	ER_BY			
	3	4711	3 cancelled	
10-F	EB-14 C	9.01.01.00	00000 AM	
Johr	า			
	8	4713	3 reopend	
13-N	MAR-14	10.04.32.0	000000 AM	
Jack				
ID BOOKING_NUMBER VERSION STATE				
ENTER_TS				
ENT	ER_BY			

B) FIND ALL BOOKINGS WITH ARE CANCELLED (IN THE LATEST VERSION).

John