

Assignment-7

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L57 & L58

Creating table:

```
SQL> create table tour_guides (employee_number number(3), employee_name varchar2(20), hourly_rate number(2), months_employed number(2));
table created.

SQL> create table tour_locations(location_code number(4), location_name varchar2(20));
table created.

SQL> create table tour_expenditures(location_code number(4), employee_number number(3), hours_worked number(1), tourgroup_size number(2));
table created.
```

Inserting values:

```
SQL> insert into tour_guides values(978,'siyabonge nomenvete',30,6);
1 row created.

SQL> insert into tour_guides values(942,'Jean-Marc ithier',35,12);
1 row created.

SQL> insert into tour_guides values(923,'Tyrone Arendse',32,6);
1 row created.

SQL> insert into tour_guides values(982,'Mathew Booth',25,0);
```

```
SQL> insert into tour_locations values(1024,'Table Mountain');
1 row created.

SQL> insert into tour_locations values(1025,'Robben Island');
1 row created.

SQL> insert into tour_locations values(1026,'Kruger National Park');
1 row created.

SQL> insert into tour_locations values(1027,'St Lucia');
1 row created.
```

```

SQL> insert into tour_expenditions values(1024,978,5,8);

1 row created.

SQL> insert into tour_expenditions values(1027,942,8,4);

1 row created.

SQL> insert into tour_expenditions values(1025,923,3,20);

1 row created.

SQL> insert into tour_expenditions values(1026,982,6,8);

1 row created.

SQL> insert into tour_expenditions values(1024,978,5,8);

1 row created.

SQL> insert into tour_expenditions values(1025,978,3,16);

1 row created.

```

- 1) Display the employee names with their respective tour locations.
- 2) Display the employee_numbers who had a trip to Table Mountain
- 3) Display all the employees name regardless of whether they have undertaken a trip or not? (use left outer join)
- 4) How do we return the employee numbers, names and locations of all guides, including those who have not yet given a trip

```

SQL> select distinct employee_name,location_name from tour_guides left join tour_expenditions on tour_guides.employee_number=tour_expenditions.employee_number left join tour_locations on tour_locations.location_code=tour_expenditions.location_code;

EMPLOYEE_NAME      LOCATION_NAME
-----
Jean-Marc ithier   St Lucia
Mathew Booth       Kruger National Park
siyabonge nomenvete Table Mountain
Tyrone Arendse     Robben Island
siyabonge nomenvete Robben Island

SQL> select distinct employee_number from tour_expenditions left join tour_locations on tour_locations.location_code=tour_expenditions.location_code where tour_locations.location_name='Table Mountain';

EMPLOYEE_NUMBER
-----
978

SQL> select distinct employee_name from tour_guides left join tour_expenditions on tour_guides.employee_number=tour_expenditions.employee_number;

EMPLOYEE_NAME
-----
Tyrone Arendse
siyabonge nomenvete
Jean-Marc ithier
Mathew Booth

SQL> select distinct tour_guides.employee_number,employee_name,location_name from tour_guides left join tour_expenditions on tour_guides.employee_number=tour_expenditions.employee_number left join tour_locations on tour_locations.location_code=tour_expenditions.location_code;

EMPLOYEE_NUMBER EMPLOYEE_NAME      LOCATION_NAME
-----
923 Tyrone Arendse     Robben Island
942 Jean-Marc ithier   St Lucia
978 siyabonge nomenvete Table Mountain
982 Mathew Booth       Kruger National Park
978 siyabonge nomenvete Robben Island

```

5) Display all employees who've worked with a tour group of more than 10 people

```
SQL> select distinct employee_name from tour_guides left join tour_expenditures on tour_guides.employee_number=tour_expenditures.employee_number where tour_expenditures.tourgroup_size>10;

EMPLOYEE_NAME
-----
Tyrone Arendse
siyabonge nomenvete
```

6) Find the names of all the employees who have the same hourly rate as Siyabonge Nomenvete.(self join)

```
SQL> SELECT e1.employee_name FROM tour_guides e1,tour_guides e2 WHERE e1.hourly_rate=e2.hourly_rate AND e2.employee_name='siyabonge nomenvete';

EMPLOYEE_NAME
-----
siyabonge nomenvete
```

7) Display the employee name and employee number who have worked for more than 3 hours.

```
SQL> select distinct employee_name,tour_guides.employee_number from tour_guides left join tour_expenditures on tour_guides.employee_number=tour_expenditures.employee_number where tour_expenditures.hours_worked>3;

EMPLOYEE_NAME      EMPLOYEE_NUMBER
-----
Jean-Marc ithier      942
Mathew Booth         982
siyabonge nomenvete   978
```

8) Display the total information of the tour guides along with their hourly rate in asc order

```
SQL> select tour_guides.employee_number,employee_name,hourly_rate,months_employed,location_name,hours_worked,tourgroup_size,tour_expenditures.location_code from tour_guides left join tour_expenditures on tour_guides.employee_number=tour_expenditures.employee_number left join tour_locations on tour_locations.location_code=tour_expenditures.location_code;

EMPLOYEE_NUMBER EMPLOYEE_NAME      HOURLY_RATE MONTHS_EMPLOYED
-----
LOCATION_NAME      HOURS_WORKED TOURGROUP_SIZE LOCATION_CODE
-----
978 siyabonge nomenvete      30          6
Table Mountain    5          8          1024
978 siyabonge nomenvete      30          6
Table Mountain    5          8          1024
978 siyabonge nomenvete      30          6
Robben Island     3          16         1025

EMPLOYEE_NUMBER EMPLOYEE_NAME      HOURLY_RATE MONTHS_EMPLOYED
-----
LOCATION_NAME      HOURS_WORKED TOURGROUP_SIZE LOCATION_CODE
-----
923 Tyrone Arendse      32          20         1025
Robben Island     3          20         1025
982 Mathew Booth      25          8          1026
Kruger National Park 6          8          1026
942 Jean-Marc ithier      35          4          1027
St Lucia          8          4          1027
```

9) Display the tour location in which tour group have visited more than once.

```
SQL> select tour_locations.location_name from tour_locations left join tour_expenditures on tour_locations.location_code=tour_expenditures.location_code group by location_name having count(*)>1;

LOCATION_NAME
-----
Robben Island
Table Mountain
```