# **Database Systems Lab**

### **Muhammad Saad Hassan**

P16137 BCS-6B

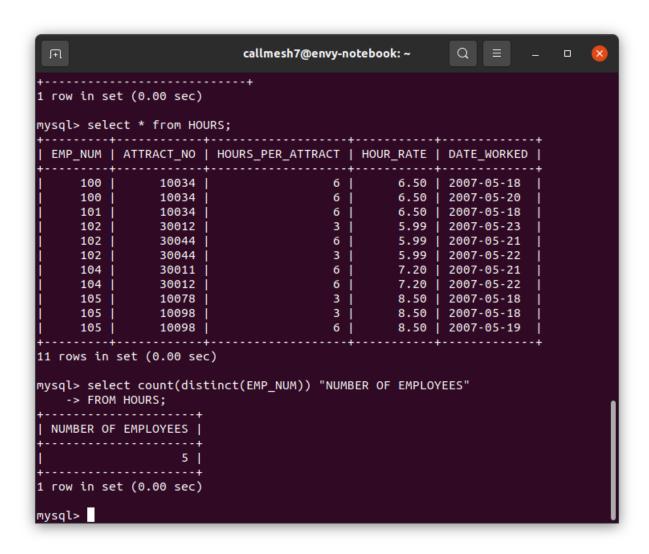
# Lab 4 PRACTICE: JOINING DATABASE TABLES

**Submitted to:** 

Sir Muhammad Usman

#### Task 4.1:

Write a query that displays the number of distinct employees in the HOURS table. You should label the column "Number of Employees".



#### Task 4.2:

Enter the following two queries and examine their output. Can you explain why the number of rows returned is different?

# SELECT COUNT(\*) FROM ATTRACTION;

-> This query will count all the entries including NULL entries.

# SELECT COUNT(ATTRACT\_NAME) FROM ATTRACTION;

-> This query will count all the entries excluding NULL entries.

### Task 4.3:

Enter the following query which illustrates the use of the MIN and Max functions. Check the query results. SELECT MIN(TICKET\_PRICE),max(TICKET\_PRICE) FROM TICKET;

### Task 4.4:

Enter the query above and check the results against the output. What happens if you miss out the GROUP BY clause?

### Task 4.5:

Execute the following query and check your results with those shown in Figure 47. Then modify the SELECT statement and change

PARK_CODE   PARK_NAME   ATTRACT_NAME   ATTRACT_CAPACITY     FR1001   FairyLand   ThunderCoaster   34	-> -> ATTRAC -> FROM	CT_CAPACITY THEMEPARK, ATTRA	C_CODE, PARK_NAME, ACTION _CODE = ATTRACTION		
FR1001   FairvLand   ThunderCoaster   34	PARK_CODE	PARK_NAME	ATTRACT_NAME	ATTRACT_CAPACITY	[
FR1001	FR1001   FR1001   ZA1342   FR1001   UK3452   UK3452   UK3452   UK3452   ZA1342 +	FairyLand   FairyLand   GoldTown   FairyLand   PleasureLand   PleasureLand   PleasureLand   GoldTown	SpinningTeacups FlightToStars Ant-Trap NULL Carnival 3D-Lego_Show BlackHole2 Pirates UnderSeaWord	62 24 30 40 120 200 34 42 80	

# Joining tables with an alias:

```
mysql> SELECT P.PARK_CODE, PARK_NAME, TICKET_NO, TICKET_TYPE, TICKET_PRICE
-> FROM THEMEPARK P, TICKET T
-> WHERE P.PARK_CODE =T.PARK_CODE;
                                  | TICKET_NO | TICKET_TYPE | TICKET_PRICE |
  PARK_CODE | PARK_NAME
  SP4533
                                                                              24.99
               | AdventurePort |
                                          11001 | Adult
                                                                             14.99
10.99
18.99
34.99
20.99
18.56
                                                    Child
  SP4533
                 AdventurePort
                                          11002
  SP4533
                 AdventurePort
                                          11003
                                                    Senior
                                                    Child
  FR1001
                 FairyLand
                                          13001
  FR1001
                 FairyLand
                                          13002
                                                    Adult
  FR1001
                 FairyLand
                                          13003
                                                    Senior
                 GoldTown
                                                    Child
  ZA1342
                                          67832
                                                                             28.67
12.12
22.50
42.10
10.99
                                                    Adult
  ZA1342
                 {\tt GoldTown}
                                          67833
                                          67855
  ZA1342
                 GoldTown
                                                    Senior
  UK3452
                 PleasureLand
                                          88567
                                                   Child
                                          88568 | Adult
89720 | Senior
  UK3452
                 PleasureLand
  UK3452
                 PleasureLand
12 rows in set (0.00 sec)
mysql>
```

# Cross Join:

RANSACTION_NO	PARK_CODE	SALE_DATE	TRANSACTION_NO	LINE_NO	TICKET_NO	LINE_QTY	LINE_PRICE
67593	ZA1342	2007-05-18	12781	1	13002	2	69.98
67592	ZA1342	2007-05-18   2007-05-18   2007-05-18   2007-05-18	12781			2	69.98
	ZA1342	2007-05-18	12781			2	69.98
67590	ZA1342	2007-05-18	12781				69.98
67589	ZA1342	2007-05-18	12781			2	69.98
34541	UK3452	2007-05-18	12781				69.98
34540	UK3452	2007-05-18	12781				
	UK3452	2007-05-18	12781				
34538	UK3452	2007-05-18	12781				
	UK3452	2007-05-18 2007-05-18	12781				
34536	UK3452	2007-05-18	12781	1	13002		
34535	UK3452	2007-05-18 2007-05-18	12781				
34534	L UK3452	2007-05-18	12781				
12786	FR1001	2007-05-18	12781				
12785	FR1001	2007-05-18	12781				
12784		2007-05-18					
12783		2007-05-18					
12782		2007-05-18					
12781	FR1001	2007-05-18	12781				
67593		2007-05-18					
67592		2007-05-18					
67591	ZA1342	2007-05-18					
67590	ZA1342	2007-05-18	12781				
67589		2007-05-18					
34541		2007-05-18					14.99
34540		2007-05-18					14.99
34539		2007-05-18				1	
34538	UK3452	2007-05-18	12781			1	14.99
34537						1	14.99
34536	UK3452	2007-05-18 2007-05-18	12781				
34535		2007-05-18				1	14.99
34534	UK3452	2007-05-18	12781	2	13001	1	14.99
12786		2007-05-18			13001	1	14.99
12785		2007-05-18				1	14.99
12784		2007-05-18		2	13001	1	14.99
12783	FR1001	2007-05-18	12781	2	13001	1	14.99
12782		2007-05-18		2	13001	1	14.99
12781	FR1001	2007-05-18	12781	2	13001	1	14.99
67593	ZA1342	2007-05-18 2007-05-18	12782	1	13002	2	69.98
67592	ZA1342	2007-05-18	12782				
67591	ZA1342	2007-05-18	12782	1	13002	2	69.98
67590	ZA1342	2007-05-18	12782	1	13002		
67589	ZA1342	2007-05-18	12782	1	13002		69.98
34541	UK3452	2007-05-18 2007-05-18	12782	1	13002	2	69.98
34540		2007-05-18	12782	1	13002	2	
34539	UK3452	2007-05-18	12782	1	13002	2	69.98
34538	UK3452	2007-05-18	12782		13002	2	

34540	UK3452	2007-05-18	67592	1		4	114.68	
34539	UK3452	2007-05-18	67592	1	•	4	114.68	
34538	UK3452	2007-05-18	67592	1	67833	4	114.68	
34537	UK3452	2007-05-18	67592	1	67833	4	114.68	
34536	UK3452	2007-05-18	67592	1	67833	4	114.68	
34535	UK3452	2007-05-18	67592	1	67833	4	114.68	
34534	UK3452	2007-05-18	67592	1	67833	4	114.68	
12786	FR1001	2007-05-18	67592	1	67833	4	114.68	
12785	FR1001	2007-05-18	67592	1	67833	4	114.68	
12784	FR1001	2007-05-18	67592	1	•	4	114.68	
12783	FR1001	2007-05-18	67592	1		4	114.68	
12782	FR1001	2007-05-18	67592	1	•	4	114.68	
12781	FR1001	2007-05-18	67592	1	•	4	114.68	
67593	ZA1342	2007-05-18	67593	1	•	2	57.34	
67592	ZA1342	2007-05-18	67593	1		2	57.34	
67591	ZA1342	2007-03-18	67593	1 1	•	2	57.34	
			•		•			
67590	ZA1342	2007-05-18	67593	1	•	2	57.34	
67589	ZA1342	2007-05-18	67593	1	•	2	57.34	
34541	UK3452	2007-05-18	67593	1	•	2	57.34	
34540	UK3452	2007-05-18	67593	1		2	57.34	
34539	UK3452	2007-05-18	67593	1		2	57.34	
34538	UK3452	2007-05-18	67593	1	•	2	57.34	
34537	UK3452	2007-05-18	67593	1		2		
34536	UK3452	2007-05-18	67593	1	67833	2	57.34	
34535	UK3452	2007-05-18	67593	1	67833	2	57.34	
34534	UK3452	2007-05-18	67593	1	67833	2	57.34	
12786	FR1001	2007-05-18	67593	1	67833	2	57.34	
12785	FR1001	2007-05-18	67593	1	67833	2	57.34	
12784	FR1001	2007-05-18	67593	1		2	57.34	
12783	FR1001	2007-05-18	67593	1		2	57.34	
12782	FR1001	2007-05-18	67593	1	•	2	57.34	
12781	FR1001	2007-05-18	67593	1		2	57.34	
67593	ZA1342	2007-05-18	67593	2		2	37.12	
67592	ZA1342	2007-05-18	67593	2		2	37.12	
	•	2007-03-18		2				
67591	ZA1342		67593				•	
67590	ZA1342	2007-05-18	67593	2		2	37.12	
67589	ZA1342	2007-05-18	67593	2	67832	2		
34541	UK3452	2007-05-18	67593	2		2	37.12	
34540	UK3452	2007-05-18	67593	2	67832	2	37.12	
34539	UK3452	2007-05-18	67593	2	67832	2	37.12	
34538	UK3452	2007-05-18	67593	2		2	37.12	
34537	UK3452	2007-05-18	67593	2	67832	2	37.12	
34536	UK3452	2007-05-18	67593	2	67832	2	37.12	
34535	UK3452	2007-05-18	67593	2	67832	2	37.12	
34534	UK3452	2007-05-18	67593	2	67832	2	37.12	
12786	FR1001	2007-05-18	67593	2	67832	2	37.12	
12785	FR1001	2007-05-18	67593	2	67832	2	37.12	
12784	FR1001	2007-05-18	67593	2		2		
12783	FR1001	2007-05-18	67593	2		2		
12782	FR1001	2007-05-18	67593	2		2	37.12	
12781	FR1001	2007-05-18		2		2		
12701	111001	1 2001 03 10	01373	-	07032		31.12	

nysql>

### **Natural Join:**

```
Q ≡
                                                  callmesh7@envy-notebook: ~
mysql> SELECT TRANSACTION_NO, SALE_DATE, LINE_NO, LINE_QTY, LINE_PRICE
  -> FROM SALES NATURAL JOIN SALES_LINE;
| TRANSACTION_NO | SALE_DATE | LINE_NO | LINE_QTY | LINE_PRICE |
           12781 | 2007-05-18 |
           12781
                    2007-05-18
                                                              14.99
                                                             69.98
           12782
                    2007-05-18
           12783
                    2007-05-18
                                                             41.98
           12784
                    2007-05-18
                                                             14.99
           12785
                    2007-05-18
                                                             14.99
           12785
                    2007-05-18
                                                             34.99
           12785
                    2007-05-18
                                                            139.96
           34534
                    2007-05-18
                                                    4
                                                            168.40
           34534
                    2007-05-18
                                                             22.50
           34534
                    2007-05-18
                                                             21.98
           34535
                    2007-05-18
                                                             84.20
           34536
                    2007-05-18
                                                             21.98
           34537
                    2007-05-18
                                                             84.20
           34537
                    2007-05-18
                                                             22.50
           34538
                    2007-05-18
                                                             21.98
           34539
                    2007-05-18
                                                             21.98
           34539
                    2007-05-18
                                                             84.20
           34540
                    2007-05-18
                                                            168.40
           34540
                    2007-05-18
                                                             22.50
           34540
                    2007-05-18
                                                             21.98
           34541
                    2007-05-18
                                                             84.20
           67589
                    2007-05-18
                                                             57.34
           67589
                    2007-05-18
                                                             37.12
           67590
                    2007-05-18
                                                             57.34
           67590
                    2007-05-18
                                                             37.12
           67591
                    2007-05-18
                                                    1 j
                                                             18.56
           67591
                    2007-05-18
                                                             12.12
           67592
                    2007-05-18
                                                            114.68
           67593
                    2007-05-18
                                                             57.34
           67593 | 2007-05-18 |
                                                             37.12
31 rows in set (0.00 sec)
mysql>
```

### Join USING:

RANSACTION_NO	SALE_DATE	LINE_NO	LINE_QTY	LINE_PRICE	1
12781	2007-05-18	1	2	69.98	i L
12781	2007-05-18	2	1	14.99	İ
12782	2007-05-18	1	2	69.98	İ
12783	2007-05-18	1	2	41.98	İ
12784	2007-05-18	2	1	14.99	1
12785	2007-05-18	1	1	14.99	
12785	2007-05-18	2	1	34.99	1
12785	2007-05-18	] 3	4	139.96	1
34534	2007-05-18	1	4	168.40	1
34534	2007-05-18	2	1	22.50	1
34534	2007-05-18	] 3			1
34535	2007-05-18	1	2	84.20	1
34536	2007-05-18	1	2	21.98	1
34537	2007-05-18	1	2	84.20	1
34537	2007-05-18	2			1
34538	2007-05-18	1			1
34539	2007-05-18	1	2	21.98	1
34539	2007-05-18	2	2	84.20	1
34540	2007-05-18	1	4	168.40	1
34540	2007-05-18	2	1	22.50	1
34540	2007-05-18	] 3	2	21.98	1
34541	2007-05-18	1	2	84.20	1
67589	2007-05-18	1	2	57.34	1
67589	2007-05-18				1
67590	2007-05-18	1			1
67590		2			1
67591	2007-05-18	1	1	18.56	1
67591	2007-05-18	2			1
67592	2007-05-18	1	4	114.68	1
67593	2007-05-18	1			1
67593	2007-05-18	2	2	37.12	1

# Join ON:

```
mysql> SELECT SALES.TRANSACTION_NO, SALE_DATE, LINE_NO, LINE_QTY, LINE_PRICE
    -> FROM SALES JOIN SALES_LINE
    -> ON SALES.TRANSACTION_NO = SALES_LINE.TRANSACTION_NO;
  TRANSACTION_NO | SALE_DATE | LINE_NO | LINE_QTY | LINE_PRICE |
                    2007-05-18 |
                                                               14.99
69.98
            12781
                    2007-05-18
            12782
                    2007-05-18
            12783
                    2007-05-18
                                                               41.98
            12784
                    2007-05-18
                                                               14.99
            12785
                    2007-05-18
                                                               14.99
                                         1
2
3
1
2
3
            12785
                    2007-05-18
                                                               34.99
            12785
                    2007-05-18
                                                              139.96
            34534
                    2007-05-18
                                                              168.40
            34534
                    2007-05-18
                                                               22.50
            34534
                    2007-05-18
                                                               21.98
            34535
                    2007-05-18
                                                               84.20
            34536
                    2007-05-18
                                                               21.98
            34537
                    2007-05-18
                                                               84.20
                                         1
1
1
2
1
2
3
                    2007-05-18
2007-05-18
            34537
                                                               22.50
            34538
                                                               21.98
            34539
                    2007-05-18
                                                               21.98
            34539
                    2007-05-18
                                                               84.20
                                                              168.40
            34540
                    2007-05-18
                    2007-05-18
2007-05-18
            34540
                                                               22.50
            34540
                                                               21.98
            34541
                    2007-05-18
                                                               84.20
            67589
                    2007-05-18
                                                               57.34
                                                               37.12
57.34
37.12
            67589
                    2007-05-18
            67590
                    2007-05-18
            67590
                    2007-05-18
            67591
                    2007-05-18
                                                               18.56
            67591
                    2007-05-18
                                                     1
                                                               12.12
            67592
                    2007-05-18
                                                              114.68
                    2007-05-18
            67593
                                                               57.34
            67593
                                                               37.12
31 rows in set (0.00 sec)
mysql>
```

### The Outer Join:

**LEFT OUTER JOIN:** 

```
mysql> SELECT THEMEPARK.PARK_CODE, PARK_NAME, ATTRACT_NAME
    -> FROM THEMEPARK LEFT JOIN ATTRACTION ON
    -> THEMEPARK.PARK_CODE = ATTRACTION.PARK_CODE;
  PARK_CODE | PARK_NAME
                                  | ATTRACT_NAME
  FR1001
                 FairyLand
                                    ThunderCoaster
  FR1001
                 FairyLand
                                     SpinningTeacups
  FR1001
                 FairyLand
                                    FlightToStars
  FR1001
                 FairyLand
                                     Ant-Trap
  FR1001
                 FairyLand
                                     Carnival
                 Efling
  NL1202
                                     NULL
                 AdventurePort
  SP4533
                                     NULL
                 Labyrinthe
  SW2323
                                     NULL
                 MiniLand
  UK2622
                                    NULL
                                    3D-Lego_Show
BlackHole2
                 PleasureLand
  UK3452
  UK3452
                 PleasureLand
  UK3452
                 PleasureLand
                                     Pirates
  UK3452
                 PleasureLand
                                    UnderSeaWord
  ZA1342
                 GoldTown
                                    NULL
                                    GoldRush
  ZA1342
                 GoldTown
15 rows in set (0.00 sec)
mysql>
```

#### **RIGHT OUTER JOIN:**

```
nysql> SELECT THEMEPARK.PARK_CODE, PARK_NAME, ATTRACT_NAME
-> FROM THEMEPARK RIGHT JOIN ATTRACTION ON
    -> THEMEPARK.PARK_CODE = ATTRACTION.PARK_CODE;
 PARK_CODE | PARK_NAME
                              | ATTRACT_NAME
  FR1001
               FairyLand
                                ThunderCoaster
  FR1001
               FairyLand
                                SpinningTeacups
  FR1001
               FairyLand
                                FlightToStars
  FR1001
               FairyLand
                                Ant-Trap
  ZA1342
               GoldTown
  FR1001
               FairyLand
                                Carnival
               PleasureLand
                                3D-Lego_Show
BlackHole2
  UK3452
  UK3452
               PleasureLand
  UK3452
               PleasureLand
                                Pirates
  UK3452
               PleasureLand
                                UnderSeaWord
  ZA1342
               GoldTown
                                GoldRush
11 rows in set (0.00 sec)
mysql>
```

# **TASK LAB # 04:**

### E4.1:

Write a query that displays the average hourly rate that has been paid to all employees. Your query should return €7.03.

```
mysql> SELECT AVG(HOUR_RATE) FROM HOURS;

| AVG(HOUR_RATE) |

| 7.033636 |

+-----

1 row in set (0.00 sec)

mysql> |
```

### E4.2:

Write a query that displays the average attraction age for all attractions where the PARK CODE is equal to 'UK3452'. Your query should return 7.25 years.

```
mysql> SELECT AVG(ATTRACT_AGE)
-> FROM ATTRACTION
-> WHERE PARK_CODE = 'UK3452';

| AVG(ATTRACT_AGE) |
+-----+
| 7.2500 |
+----+
1 row in set (0.00 sec)

mysql>
```

# E4.3:

Display the employee numbers of all employees and the total number of hours they have worked.

# E4.4:

Show the attraction number and the minimum and maximum hourly rate for each attraction.

```
mysql> SELECT ATTRACT NO,MIN(HOUR RATE),MAX(HOUR RATE)
   -> FROM HOURS
   -> GROUP BY ATTRACT_NO;
 ATTRACT_NO | MIN(HOUR_RATE) | MAX(HOUR_RATE) |
               6.50
     10034
                             6.50
     10078
                  8.50
                                8.50 I
     10098
                  8.50 |
                                8.50
     30011
                   7.20
                                 7.20
     30012
                  5.99
                                 7.20
            5.99 | 5.99 |
     30044
6 rows in set (0.01 sec)
mysql>
```

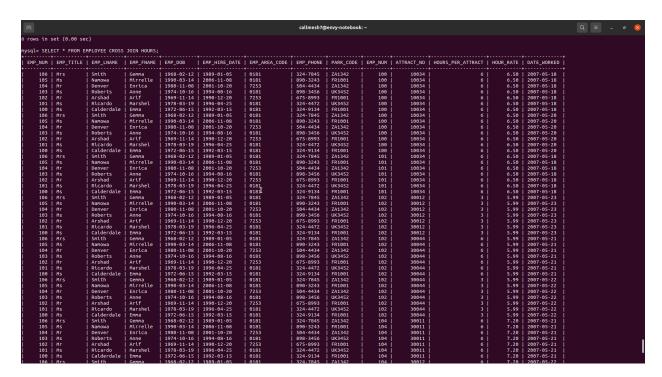
#### E4.5:

Using the HOURS table, write a query to display the employee number (EMP\_NUM), the attraction number (ATTRACT-NO) and the average hours worked per attraction (HOURS\_PER\_ATTRACT) limiting the result to where the average hours worked per attraction is greater or equal to 5.

```
mysql> SELECT EMP NUM,ATTRACT NO, AVG(HOURS PER ATTRACT)
   -> FROM HOURS WHERE HOURS_PER_ATTRACT >= 5
   -> GROUP BY EMP_NUM,ATTRACT_NO;
 EMP_NUM | ATTRACT_NO | AVG(HOURS_PER_ATTRACT) |
             10034 I
     100
                                    6.0000
     101
              10034
                                    6.0000
     102
              30044 l
                                    6.0000
     104
              30011
                                    6.0000
     104 I
              30012 |
                                    6.0000 l
     105
              10098
                                    6.0000
6 rows in set (0.00 sec)
mysql>||
```

E 4.6:

Write a CROSS JOIN query which selects all rows from the EMPLOYEE and HOURS tables. How many rows were returned?



```
-18
    .
101 | Ms | Ricardo | Marshel | 1978-03-19 | 1996-04-25
                                                               0181
   324-4472 | UK3452 | 105 | 10078 |
                                                               8.50 | 2007-05
18
              | Calderdale | Emma | 1972-06-15 | 1992-03-15
    100 | Ms
                                                               0181
 | 324-9134 | FR1001 |
                                                               8.50 | 2007-05
18
                          | Gemma | 1968-02-12 | 1989-01-05
    106 | Mrs | Smith
                                                               0181
 | 324-7845 | ZA1342
                         105 |
                                  10098
                                                               8.50 | 2007-05
                 | Namowa | Mirrelle | 1990-03-14 | 2006-11-08
    105 | Ms
                                                               0181
 | 890-3243 | FR1001
                          105 |
                                  10098
                                                               8.50 | 2007-05
                 104 | Mr
                                                               l 7253
  504-4434 | ZA1342 |
                          105 | 10098 |
                                                               8.50 | 2007-05
                 | Roberts | Anne
                                    | 1974-10-16 | 1994-08-16
                                                               0181
  898-3456 | UK3452
                         105
                                   10098
                                                               8.50 | 2007-05
                                                        3 |
                 | Arshad | Arif
                                     | 1969-11-14 | 1990-12-20
    102 | Mr
                                                               I 7253
 | 675-8993 | FR1001 | 105 |
                                  10098
                                                               8.50 | 2007-05
                                                        3 I
18
                 | Ricardo | Marshel | 1978-03-19 | 1996-04-25
    101 | Ms
                                                               0181
 | 324-4472 | UK3452 | 105 | 10098 |
                                                               8.50 | 2007-05
18 |
 100 | Ms | Calderdale | Emma | 1972-06-15 | 1992-03-15 | 324-9134 | FR1001 | 105 | 10098 | 3 |
                                                               I 0181
                                                               8.50 | 2007-05
    106 | Mrs | Smith
                          | Gemma | 1968-02-12 | 1989-01-05
                                                               0181
                          105 | 10098 |
  324-7845 | ZA1342 |
                                                               8.50 | 2007-05
                                                        6 I
19
    105 | Ms
              | Namowa | Mirrelle | 1990-03-14 | 2006-11-08
                                                               0181
 | 890-3243 | FR1001
                          105 I
                                  10098 I
                                                        6 I
                                                               8.50 | 2007-05
              | Denver | Enrica | 1980-11-08 | 2001-10-20
   104 | Mr
                                                                7253
 | 504-4434 | ZA1342
                          105 |
                                  10098
                                                               8.50 | 2007-05
                | Roberts | Anne
    103 | Ms
                                     | 1974-10-16 | 1994-08-16
                                                               I 0181
 | 898-3456 | UK3452 | 105 |
                                  10098 I
                                                        6 I
                                                               8.50 | 2007-05
19
 102 | Mr | Arshad | Arif | 19
| 675-8993 | FR1001 | 105 | 10098 |
                                     | 1969-11-14 | 1990-12-20
                                                               7253
                                                               8.50 | 2007-05
19
                  | Ricardo | Marshel | 1978-03-19 | 1996-04-25
                                                               0181
    101 | Ms
 | 324-4472 | UK3452
                    | 105 | 10098 |
                                                        6 |
                                                               8.50 | 2007-05
                 | Calderdale | Emma
                                      | 1972-06-15 | 1992-03-15
    100 | Ms
 | 324-9134 | FR1001 | 105 |
                                  10098
                                                               8.50 | 2007-05
77 rows in set (0.00 sec)
mysql>
```

# E.4.7:

Write a query that displays the employees first and last name (EMP\_FNAME and EMP\_LNAME), the attraction number(ATTRACT\_NO) and the date worked

EMP_FNAME	EMP_LNAME	ATTRACT_NO	DATE_WORKED	
 Emma	Calderdale	10034	2007-05-18	
Emma	Calderdale	10034	2007-05-20	
Marshel	Ricardo	10034	2007-05-18	
Arif	Arshad	30012	2007-05-23	
Arif	Arshad	30044	2007-05-21	
Arif	Arshad	30044	2007-05-22	
Enrica	Denver	30011	2007-05-21	
Enrica	Denver	30012	2007-05-22	
Mirrelle	Namowa	10078	2007-05-18	
Mirrelle	Namowa	10098	2007-05-18	
Mirrelle	Namowa	10098	2007-05-19	

# E.4.8:

Rewrite the query you wrote in E 4.7 so that the attraction name (ATTRACT\_NAME located in the ATTRACTION table) is also displayed

### E4.9:

Display the park names and total sales for Theme Parks who are located in the country 'UK' or 'FR'

```
mysql> SELECT PARK_NAME,TICKET_PRICE AS "TOTAL SALE"
   -> FROM THEMEPARK CROSS JOIN TICKET
-> WHERE PARK_COUNTRY = 'UK' OR 'FR';
| PARK_NAME | TOTAL SALE |
| PleasureLand | 24.99
| MiniLand | 24.99
| PleasureLand | 14.99
 MiniLand | 14.99
PleasureLand | 10.99
                     10.99
  MiniLand
  PleasureLand | 18.99
 MiniLand
                     18.99
                 34.99
  PleasureLand |
  MiniLand
                      34.99
  PleasureLand |
                     20.99
  MiniLand
                      20.99
                     18.56
 PleasureLand |
 MiniLand
                      18.56
 PleasureLand |
                     28.67
 MiniLand
                     28.67
  PleasureLand |
  MiniLand
                     12.12
                     22.50
  PleasureLand |
                     22.50
 MiniLand |
                     42.10
  PleasureLand |
  MiniLand |
                      42.10
  PleasureLand |
                      10.99
 MiniLand |
                      10.99
24 rows in set, 1 warning (0.00 sec)
mysql>
```

### E4.10:

List the sale date, line quantity and line price of all transactions on the 18 th May 2007.

```
mysql> SELECT SALE_DATE,LINE_QTY,LINE_PRICE
   -> FROM SALES, SALES_LINE
   -> WHERE SALE_DATE = '2007-05-18';
| SALE_DATE | LINE_QTY | LINE_PRICE |
 2007-05-18
                    2
                             69.98
                             69.98
                    2 |
 2007-05-18 |
                            69.98
 2007-05-18
                   2 |
                            69.98
 2007-05-18 |
                            69.98
69.98
69.98
 2007-05-18
 2007-05-18
                     2
 2007-05-18
                            69.98
 2007-05-18
 2007-05-18
                            69.98
 2007-05-18 |
                   2
                            69.98
 2007-05-18
                            69.98
                    2
 2007-05-18
                   2
                            69.98
                   2
 2007-05-18
                            69.98
                    2
 2007-05-18 |
                            69.98
 2007-05-18 |
                    2
                             69.98
 2007-05-18
                    2
                             69.98
 2007-05-18
                    2
                             69.98
 2007-05-18
                     2
                             69.98
 2007-05-18
                     2
                             69.98
                            14.99
 2007-05-18 |
                            14.99
 2007-05-18 |
 2007-05-18
                            14.99
                     1
 2007-05-18
                            14.99
 2007-05-18
                    1
                            14.99
 2007-05-18
                     1 |
                            14.99
 2007-05-18
                            14.99
 2007-05-18
                            14.99
 2007-05-18
                            14.99
                            14.99
 2007-05-18
 2007-05-18
                             14.99
 2007-05-18
                             14.99
                    1
  2007-05-18
                     1
                             14.99
 2007-05-18 |
                             14.99
 2007-05-18 |
                             14.99
 2007-05-18 |
                             14.99
                     1
 2007-05-18 |
                             14.99
 2007-05-18
                            14.99
                    1 |
 2007-05-18
                     1 |
                            14.99
 2007-05-18
                             69.98
 2007-05-18 |
                             69.98
 2007-05-18
                     2
                             69.98
 2007-05-18 |
                     2
                             69.98
 2007-05-18
                     2
                             69.98
 2007-05-18
                     2
                             69.98
  2007-05-18
                     2
                             69.98
 2007-05-18 |
                             69.98
 2007-05-18
                             69.98
 2007-05-18
                             69.98
```

```
2007-05-18
                               114.68
  2007-05-18
                               114.68
  2007-05-18
                               114.68
                      4
  2007-05-18
                               114.68
 2007-05-18
                               114.68
 2007-05-18
                               114.68
 2007-05-18
                               114.68
 2007-05-18
                               114.68
  2007-05-18
                               114.68
 2007-05-18
                               114.68
 2007-05-18
                               114.68
 2007-05-18
                      4
                               114.68
 2007-05-18
                               114.68
  2007-05-18
                               57.34
                                57.34
  2007-05-18
                               57.34
  2007-05-18
  2007-05-18
                               57.34
  2007-05-18
                               57.34
 2007-05-18
                               57.34
 2007-05-18
                               57.34
                      2
 2007-05-18
                      2
                               57.34
 2007-05-18
                               57.34
 2007-05-18
                               57.34
 2007-05-18
                               57.34
 2007-05-18
                               57.34
 2007-05-18
                                57.34
 2007-05-18
                                57.34
                                57.34
  2007-05-18
  2007-05-18
                                57.34
 2007-05-18
                               57.34
 2007-05-18
                               57.34
 2007-05-18
                      2
                               57.34
 2007-05-18
                               37.12
 2007-05-18
                      2
                               37.12
 2007-05-18
                               37.12
 2007-05-18
                               37.12
 2007-05-18
 2007-05-18
                               37.12
 2007-05-18
                               37.12
 2007-05-18
                                37.12
                                37.12
  2007-05-18
  2007-05-18
                                37.12
 2007-05-18
 2007-05-18
                               37.12
 2007-05-18
                               37.12
 2007-05-18
                               37.12
                      2
 2007-05-18
                      2
                                37.12
 2007-05-18
                                37.12
 2007-05-18
                                37.12
 2007-05-18
 2007-05-18
                                37.12
589 rows in set (0.00 sec)
mysql>
```