```
SELECT Prod_SKU, Prod_Desc, Prod_Type, Prod_Base,
Prod_Category, Prod_Price
FROM LGPRODUCT
WHERE Prod_Base like 'water' AND Prod_Category like '
sealer';
```

```
SELECT Emp_Fname, Emp_Lname, Emp_Email
FROM LGEMPLOYEE
WHERE (Emp_Hiredate BEIWEEN '2010-01-01' AND '2013-12-31')
ORDER BY Emp_Lname, Emp_Fname;
```

```
mysql> SELECT Emp Fname, Emp Lname, Emp Phone, Emp Title, Dept Num
   -> FROM LGEMPLOYEE
   -> WHERE Dept Num = 300 OR BINARY Emp Title like "CLERK1"
   -> ORDER BY Emp Lname, Emp Fname;
 Emp Fname | Emp Lname | Emp Phone | Emp Title
                                                 | Dept Num
                    | 0114587456 | CLERK1
           Bacca
                                                            200
 Chew
                     | 0837458965 | Manager
                                                            300
 Obi Wan
           | Kenobi
           | Yoda
                     | 0827854123 | Senior Associate |
                                                            300
 rows in set (0.00 sec)
```

```
SELECT Emp_Fname, Emp_Lname, Emp_Phone, Emp_Title
, Dept_Num
FROM LGEMPLOYEE
WHERE Dept_Num = 300 OR BINARY Emp_Title like "CLERK1"
ORDER BY Emp_Lname, Emp_Fname;
```

```
SELECT LGEMPLOYEE. Emp_Num, LGEMPLOYEE. Emp_Lname,
LGEMPLOYEE. Emp_Fname, LGSALARY_HISTORY.
Sal_From, LGSALARY_HISTORY. Sal_End,
LGSALARY_HISTORY. Sal_Amount
FROM LGEMPLOYEE INNER JOIN LGSALARY_HISTORY ON LGEMPLOYEE
. Emp_Num=LGSALARY_HISTORY. Emp_Num
WHERE LGEMPLOYEE. Emp_Num = 83731 OR LGEMPLOYEE. Emp_Num = 83745 OR LGEMPLOYEE. Emp_Num = 84039
ORDER BY LGEMPLOYEE. Emp_Num, LGSALARY_HISTORY. Sal_From;
```

```
SELECT DISTINCT LGCUSTOMER. Cust_Fname, LGCUSTOMER

. Cust_Lname, LGCUSTOMER. Cust_Street,
LGCUSTOMER. Cust_City, LGCUSTOMER. Cust_Province,
, LGCUSTOMER. Cust_Zip

FROM LGCUSTOMER, LGBRAND, LGINVOICE, LGPRODUCT

WHERE LGBRAND. Brand_Name like 'Tatooine_Dust' AND
LGPRODUCT. Prod_Category like 'Top_Coat' AND (LGINVOICE
. Inv_Date BETWEEN '2011-07-15' AND '2013-07-31')

ORDER BY LGCUSTOMER. Cust_Province, LGCUSTOMER. Cust_Lname,
LGCUSTOMER. Cust_Fname;
```

Database fundementals final project

Name and student number

23 March 2014

7 Question 10

```
SELECT LGBRAND. Brand_Name, COUNT(*) AS 'Amount'
FROM LGPRODUCT JOIN LGBRAND ON LGPRODUCT. Brand_ID=LGBRAND
. Brand_ID
CROUP BY LGBRAND. Brand_Name
ORDER BY LGBRAND. Brand_Name;
```

```
SELECT Prod_Category, COUNT(*) AS 'Amount'
FROM LGPRODUCT
WHERE Prod_Base like 'water'
GROUP BY Prod_Category;
```

```
mysql> SELECT Prod_Category, COUNT(*) AS 'Amount'
    -> FROM LGPRODUCT
    -> WHERE Prod_Base like 'water'
    -> GROUP BY Prod_Category;
+------+
| Prod_Category | Amount |
+------+
| Cleaner | 1 |
| Primer | 1 |
| Sealer | 1 |
| Top Coat | 1 |
+------+
4 rows in set (0.00 sec)
```

```
SELECT Prod_Base, Prod_Type, COUNT(*) AS 'Amount ,
FROM LGPRODUCT
GROUP BY Prod_Base, Prod_Type;
```

```
mysql> SELECT LGBRAND.Brand_ID, COUNT(*) AS 'Amount'
    -> FROM LGBRAND JOIN LGPRODUCT ON LGBRAND.Brand_ID=LGPRODUCT.Brand_ID
    -> GROUP BY Brand_ID
    -> ORDER BY Brand_ID DESC;
+-----+
| Brand_ID | Amount |
+-----+
| 4 | 2 |
| 3 | 2 |
| 2 | 1 |
| 0 | 2 |
+-----+
4 rows in set (0.00 sec)
```

```
SELECT LGBRAND. Brand_ID , COUNT(*) AS 'Amount'
FROM LGBRAND JOIN LGPRODUCT ON LGBRAND. Brand_ID=LGPRODUCT
. Brand_ID
GROUP BY Brand_ID
ORDER BY Brand_ID DESC;
```

11 Question 14(17)

```
SELECT LGPRODUCT. Brand_ID , LGBRAND. Brand_Name ,
ROUND(AVG(LGPRODUCT. Prod_Price) , 2) AS '
Average'

FROM LGBRAND JOIN LGPRODUCT ON LGBRAND. Brand_ID=LGPRODUCT
. Brand_ID
GROUP BY LGPRODUCT. Brand_ID
ORDER BY LGBRAND. Brand_Name;
```

12 Question **15**(18)

```
mysql> SELECT Dept_Num, MAX(Emp_Hiredate) AS 'Max Hiredate'
    -> FROM LGEMPLOYEE
    -> GROUP BY Dept_Num
    -> ORDER BY Dept_Num;
+-----+
| Dept_Num | Max Hiredate |
+-----+
| 200 | 2014-03-17 |
| 300 | 2010-06-25 |
| 400 | 2012-05-14 |
| 500 | 2012-12-05 |
+-----+
4 rows in set (0.00 sec)
```

```
SELECT Dept_Num, MAX(Emp_Hiredate) AS 'Max_
Hiredate'
FROM LGEMPLOYEE
GROUP BY Dept_Num
ORDER BY Dept_Num;
```

13 Question **16**₍19)

```
mysql> SELECT LGCUSTOMER.Cust Code, LGCUSTOMER.Cust Fname, LGCUSTOMER.Cust Lna
   -> FROM LGCUSTOMER JOIN LGINVOICE ON LGCUSTOMER.Cust Code = LGINVOICE.Cust
   -> WHERE LGINVOICE.Inv Total > 1500
   -> GROUP BY LGINVOICE.Cust Code
   -> ORDER BY SUM(LGINVOICE.Inv Total) DESC;
 Cust Code | Cust Fname | Cust Lname | Sum of Invoice Totals |
         3 | The Hunger | Games
                                                   151020.00
         1 | Pacific | Rim
                                                    84800.00
         2 | Iron Man
                        | 3
                                                    56120.00 |
         0 | John
                        Doe
                                                    22500.00 |
         4 | Incep
                        | Tion
                                                    18040.00 I
 rows in set (0.00 sec)
mysql>
```

```
SELECT LGDEPARTMENT. Dept_Num, LGDEPARTMENT.

Dept_Name, LGDEPARTMENT. Dept_Phone,

LGDEPARTMENT. Emp_Num, LGEMPLOYEE. Emp_Lname

FROM LGDEPARTMENT JOIN LGEMPLOYEE ON LGDEPARTMENT. Emp_Num

= LGEMPLOYEE. Emp_Num

WHERE LGEMPLOYEE. Emp_Title like "manager"

ORDER BY LGDEPARTMENT. Dept_Name;
```

```
mysql> SELECT LGSUPPLIES. Vend ID, LGVENDOR. Vend Name, LGBRAND. Brand Name, COUN
   -> FROM LGVENDOR JOIN (LGSUPPLIES JOIN (LGPRODUCT JOIN LGBRAND ON LGPRODUC
D=LGSUPPLIES.Vend ID
   -> GROUP BY LGSUPPLIES. Vend ID, LGPRODUCT. Brand ID
   -> ORDER BY LGVENDOR. Vend Name, LGBRAND. Brand Name;
 Vend ID | Vend Name | Brand Name
       0 | AB Devillies | Coruscant Painters | 1 |
       0 | AB Devillies | Racer Pod Ballers |
                                                1 |
       0 | AB Devillies | Tatooine Dust |
                   | Coruscant Painters |
                                                1 |
       4 | C Adam
                      | Light Sabers |
       4 | C Adam
       4 | C Adam
                      | Racer Pod Ballers |
       4 | C Adam
                      | Tatooine Dust |
       5 | C Crouch
                      | Coruscant Painters |
                                                1 |
                      | Light Sabers
       5 | C Crouch
                                                 1 |
       5 | C Crouch
                      | Racer Pod Ballers |
                      | Light Sabers
       1 | DW Steyn
                                                 1 I
       1 | DW Steyn | Racer Pod Ballers |
                                                 2 |
       2 | F Du Plessis | Coruscant Painters |
                                                1 |
       2 | F Du Plessis | Racer Pod Ballers |
       2 | F Du Plessis | Tatooine Dust |
       3 | S Gerrard | Coruscant Painters |
                       | Light Sabers
       3 | S Gerrard
                                                1 |
       3 | S Gerrard
                      | Racer Pod Ballers |
18 rows in set (0.00 sec)
```

```
SELECT AVG(Prod_Price) AS 'Largest_Average_
Product_Price'
FROM LGPRODUCT
GROUP BY Brand_ID
ORDER BY AVG(Prod_Price) DESC
LIMIT 1;
```

```
#Instead of having two nested queries a HAVING
may work better

SELECT Brand_Id, Brand_Name, Brand_Type, MAX(
Average_Price_Of_Products) AS 'Max_Average_Price_of_
Products'

FROM (
SELECT LGBRAND. Brand_Id, LGBRAND. Brand_Name,
LGBRAND. Brand_Type, AVG(LGPRODUCT. Prod_Price)
AS 'Average_Price_Of_Products'

FROM LGBRAND JOIN LGPRODUCT ON LGBRAND. Brand_Id =
LGPRODUCT. Brand_Id
GROUP BY LGBRAND. Brand_Id) Avgerages;
```

```
SELECT CONCAT(M. Emp_Fname, '_', M. Emp_Lname) AS '
Manager_Name', IGDEPARTMENT. Dept_Name,
IGDEPARTMENT. Dept_Phone, CONCAT(E. Emp_Fname, '
_', E. Emp_Lname) AS 'Emp_Name', CONCAT(
IGCUSTOMER. Cust_Fname, '_', IGCUSTOMER.
Cust_Lname) AS 'Cust_Name', LGINVOICE. Inv_Date
, LGINVOICE. Inv_Total

FROM LGCUSTOMER JOIN (LGINVOICE JOIN (LGEMPLOYEE E JOIN (
IGDEPARTMENT JOIN IGEMPLOYEE M ON IGDEPARTMENT. Emp_Num
=M. Emp_Num) ON E. Dept_Num=IGDEPARTMENT. Dept_Num) ON
LGINVOICE. Employee_ID=E. Emp_Num) ON IGCUSTOMER.
Cust_Code=IGINVOICE. Cust_Code

WHERE Cust_Lname like 'Doe' AND Inv_Date='2013-03-23';
```

```
mysql> select *
    -> from LGPRODUCT
    -> where Prod Price > 50;
 Prod SKU | Prod Desc
                                | Prod Type | Prod Base
                                                           | Prod Category
        2 | No more holes
                            | Poly Filler | Polystyrene | Filler
        3 | Best paint Tatooine | Paint
                                                           | Top Coat
                                             Water
        4 | Opimus Primer
                               Shiny
                                             Water
                                                           Primer
        5 | Navy Sealer
                                | Solid
                                             | Cement
                                                           Sealer
                                Solid
                                                           | Sealer
        6 | Green Seal
                                             Cement
 rows in set (0.00 sec)
```

```
select *
from LGPRODUCT
where Prod_Price > 50;
```

22 Question 28

```
SELECT LGSALARY HISTORY. Sal_Amount
FROM LGSALARY HISTORY JOIN LGEMPLOYEE ON LGSALARY HISTORY
. Emp_Num=LGEMPLOYEE. Emp_Num
WHERE LGEMPLOYEE. Dept_Num=300 AND LGSALARY HISTORY.
Sal_End IS NULL
ORDER BY LGSALARY HISTORY. Sal_Amount DESC;
```

```
#with this query the earliest Sal_From date is
automatically selected.

SELECT Emp_Num, Sal_Amount

FROM LGSALARY_HISTORY

GROUP BY Emp_Num

HAVING MIN(Sal_From)

ORDER BY Emp_Num;
```

```
SELECT *
FROM LGDEPARTMENT;
```

26 Question 31

```
where LGBRAND. Brand_Name like 'Coruscant_Painters' and LGBRAND. Brand_ID = LGPRODUCT. Brand_ID and LGPRODUCT. Prod_SKU = LGLINE. Prod_SKU

and LGLINE. Inv_Num = LGINVOICE. Inv_Num and LGINVOICE. Employee_ID = LGEMPLOYEE. Emp_Num and LGINVOICE. Inv_Date between '2011-11-01' and '2013-12-01' order by LGEMPLOYEE. Emp_Lname;
```

```
mysql> SELECT LGCUSTOMER.Cust Code, LGCUSTOMER.Cust Fname, LGCUSTOMER.Cust
   ' ', LGCUSTOMER.Cust ZIP) AS 'Full Address', LGINVOICE.Inv Date, MAX(LGINVO
   -> FROM LGCUSTOMER JOIN LGINVOICE ON LGCUSTOMER.Cust Code=LGINVOICE.Cust C
   -> WHERE LGCUSTOMER.Cust Province like 'Gauteng'
   -> GROUP BY LGCUSTOMER.Cust Code;
 Cust Code | Cust Fname | Cust Lname | Full Address
         0 | John
                                     | 1 Yale Road Johannesburg Gauteng 0000
                         Doe
         2 | Iron Man
                                      | 9 Tony Stark Road California Gauteng 1
         4 | Incep
                          Tion
                                       6 9th Street Panem Gauteng 45677
                                      | 1 Yale Road Johannesburg Gauteng 0000
         5 | Jane
                         | Doe
 rows in set (0.00 sec)
```

```
SELECT LGBRAND. Brand_Name, LGBRAND. Brand_Type,
AVG(LGPRODUCT. Prod_Price) AS 'Average', SUM(
LGLINE. Line_Qty) AS 'Total_Units_Sold'
FROM LGBRAND JOIN (LGPRODUCT JOIN LGLINE ON LGPRODUCT.
Prod_SKU=LGLINE. Prod_SKU) ON LGBRAND. Brand_ID=
LGPRODUCT. Brand_ID
GROUP BY LGBRAND. Brand_ID;
```

30 Question 35