**ASHESH KUMAR**

**501254**

**I.T. – III**

**DQL**

SELECT dpt\_name, Budget, Building, Phone

from department;

|  |  |  |  |
| --- | --- | --- | --- |
| **dpt\_name** | **Budget** | **Building** | **Phone** |
| R & D | 1800000000.00 | Walkie Talkie | 022-12045678 |
| Marketing | 1500000000.00 | Doodler | 022-12345347 |
| Sales | 1500000000.00 | Skyscraper | 022-12345668 |
| Advertising | 1200000000.00 | Skyscraper | 022-12590678 |
| Accounting | 1000000000.00 | Underground | 022-12857938 |
| Operations | 1300000000.00 | Seventh Sky | 022-12345678 |
| Human Resources | 1700000000.00 | Newalans | 022-10345678 |
| Finance | 100000000.00 | Underground | 022-19342678 |
| Community Wellfare | 10070000.00 | Seventh Sky | 022-12733746 |

SELECT \*

from department;

|  |  |  |  |
| --- | --- | --- | --- |
| **dpt\_name** | **Budget** | **Building** | **Phone** |
| R & D | 1800000000.00 | Walkie Talkie | 022-12045678 |
| Marketing | 1500000000.00 | Doodler | 022-12345347 |
| Sales | 1500000000.00 | Skyscraper | 022-12345668 |
| Advertising | 1200000000.00 | Skyscraper | 022-12590678 |
| Accounting | 1000000000.00 | Underground | 022-12857938 |
| Operations | 1300000000.00 | Seventh Sky | 022-12345678 |
| Human Resources | 1700000000.00 | Newalans | 022-10345678 |
| Finance | 100000000.00 | Underground | 022-19342678 |
| Community Wellfare | 10070000.00 | Seventh Sky | 022-12733746 |

SELECT ID, First\_name, Last\_name, Gender, DOB, dpt\_name, Salary

from employee\_2012;

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ID** | **First\_name** | **Last\_name** | **Gender** | **DOB** | **dpt\_name** | **Salary** |
| 127 | Qndra | Mery | F | 06 November 1991 | Marketing | 1454083.00 |
| 117 | Ramaya | Gupta | M | 17 June 1994 | Advertising | 1654000.00 |
| 107 | Sadye | Gravatt | M | 28 March 1991 | Advertising | 1554083.00 |
| 123 | Fayed | Ahmed | F | 22 April 1994 | Sales | 1454083.00 |
| 121 | Pastro | Kurt | M | 20 April 1994 | Finance | 1284369.00 |
| 121 | Hester | Kettner | M | 23 July 1993 | Finance | 1284369.00 |
| 120 | Zafar | Fareeq | M | 17 July 1992 | Operations | 1254083.00 |
| 106 | Dorotha | Romo | F | 21 December 1993 | Human Resources | 1570000.00 |
| 105 | Lindsey | Cray | F | 09 September 1994 | Accounting | 1454083.00 |
| 126 | Alex | Amdro | M | 01 October 1995 | Human Resources | 1370990.00 |
| 124 | Aliza | Um | F | 16 August 1992 | Community Welfare | 1661847.00 |

SELECT ID, First\_name, Last\_name, Gender, DOB, dpt\_name, Salary

from employee\_2013;

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ID** | **First\_name** | **Last\_name** | **Gender** | **DOB** | **dpt\_name** | **Salary** |
| 103 | Richie | Womac | M | 29 January 1988 | R & D | 1352140.00 |
| 118 | Scottie | Kipp | F | 16 April 1988 | Marketing | 1631410.00 |
| 100 | Val | Espinal | M | 23 June 1989 | Marketing | 1390477.00 |
| 127 | Maryland | Rathjen | F | 29 November 1990 | Sales | 1454083.00 |
| 117 | Ramaya | Gupta | M | 17 June 1994 | Sales | 1654000.00 |
| 107 | Sadye | Gravatt | M | 28 March 1991 | Advertising | 1554083.00 |
| 123 | Fayed | Ahmed | F | 22 April 1994 | Advertising | 1454083.00 |
| 125 | Zandra | Lacy | F | 26 May 1990 | Finance | 1656000.00 |
| 121 | Hester | Kettner | M | 23 July 1993 | Finance | 1284369.00 |
| 120 | Sadye | Laverdiere | M | 12 July 1993 | Operations | 1254083.00 |
| 106 | Dorotha | Romo | F | 21 December 1993 | Human Resources | 1500000.00 |
| 126 | Alex | Amdro | M | 01 October 1995 | Human Resources | 1370990.00 |
| 105 | Lindsey | Cray | F | 09 September 1994 | Accounting | 1454083.00 |
| 124 | Aliza | Um | F | 16 August 1992 | Human Resources | 1661847.00 |
| 111 | Azule | Sandro | M | 15 August 1997 | Sales | NULL |

SELECT dpt\_name

from employee\_2013;

|  |
| --- |
| **dpt\_name** |
| R & D |
| Marketing |
| Marketing |
| Sales |
| Sales |
| Advertising |
| Advertising |
| Finance |
| Finance |
| Operations |
| Human Resources |
| Human Resources |
| Accounting |
| Human Resources |
| Sales |

SELECT distinct dpt\_name

from employee\_2013;

|  |
| --- |
| **dpt\_name** |
| Accounting |
| Advertising |
| Finance |
| Human Resources |
| Marketing |
| Operations |
| R & D |
| Sales |

SELECT ID, Last\_name, dpt\_name

from employee\_2013

where dpt\_name='Human Resources'

|  |  |  |
| --- | --- | --- |
| **ID** | **Last\_name** | **dpt\_name** |
| 106 | Romo | Human Resources |
| 126 | Amdro | Human Resources |
| 124 | Um | Human Resources |

SELECT ID, Last\_name, dpt\_name, Salary

from employee\_2013

where dpt\_name='Human Resources' and Salary>=1500000.00;

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Last\_name** | **dpt\_name** | **Salary** |
| 106 | Romo | Human Resources | 1500000.00 |
| 124 | Um | Human Resources | 1661847.00 |

SELECT ID, Last\_name, dpt\_name, Salary

from employee\_2013

where dpt\_name='Human Resources' and Salary<=1500000.00;

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Last\_name** | **dpt\_name** | **Salary** |
| 106 | Romo | Human Resources | 1500000.00 |
| 126 | Amdro | Human Resources | 1370990.00 |

SELECT ID,First\_name, Last\_name, dpt\_name

from employee\_2013

where dpt\_name='Advertising' or dpt\_name='Human Resources' or dpt\_name='Operations'

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **First\_name** | **Last\_name** | **dpt\_name** |
| 107 | Sadye | Gravatt | Advertising |
| 123 | Fayed | Ahmed | Advertising |
| 120 | Sadye | Laverdiere | Operations |
| 106 | Dorotha | Romo | Human Resources |
| 126 | Alex | Amdro | Human Resources |
| 124 | Aliza | Um | Human Resources |

SELECT ID, Last\_name, dpt\_name, Salary\*1.5 as Annual\_salary

from employee\_2013;

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Last\_name** | **dpt\_name** | **Annual\_salary** |
| 103 | Womac | R & D | 2028210.000 |
| 118 | Kipp | Marketing | 2447115.000 |
| 100 | Espinal | Marketing | 2085715.500 |
| 127 | Rathjen | Sales | 2181124.500 |
| 117 | Gupta | Sales | 2481000.000 |
| 107 | Gravatt | Advertising | 2331124.500 |
| 123 | Ahmed | Advertising | 2181124.500 |
| 125 | Lacy | Finance | 2484000.000 |
| 121 | Kettner | Finance | 1926553.500 |
| 120 | Laverdiere | Operations | 1881124.500 |
| 106 | Romo | Human Resources | 2250000.000 |
| 126 | Amdro | Human Resources | 2056485.000 |
| 105 | Cray | Accounting | 2181124.500 |
| 124 | Um | Human Resources | 2492770.500 |
| 111 | Sandro | Sales | NULL |

SELECT ID,First\_name, Last\_name, dpt\_name

from employee\_2013

where dpt\_name='Human Resources' or dpt\_name='Advertising' or dpt\_name='Operations'

order by First\_name;

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **First\_name** | **Last\_name** | **dpt\_name** |
| 126 | Alex | Amdro | Human Resources |
| 124 | Aliza | Um | Human Resources |
| 106 | Dorotha | Romo | Human Resources |
| 123 | Fayed | Ahmed | Advertising |
| 120 | Sadye | Laverdiere | Operations |
| 107 | Sadye | Gravatt | Advertising |

SELECT ID,First\_name, Last\_name, dpt\_name

from employee\_2013

where dpt\_name='Human Resources' or dpt\_name='Advertising' or dpt\_name='Operations'

order by dpt\_name asc, First\_name asc

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **First\_name** | **Last\_name** | **dpt\_name** |
| 123 | Fayed | Ahmed | Advertising |
| 107 | Sadye | Gravatt | Advertising |
| 126 | Alex | Amdro | Human Resources |
| 124 | Aliza | Um | Human Resources |
| 106 | Dorotha | Romo | Human Resources |
| 120 | Sadye | Laverdiere | Operations |

SELECT Last\_name, Phone

from employee\_2013, department

where employee\_2013.dpt\_name=department.dpt\_name;

|  |  |
| --- | --- |
| **Last\_name** | **Phone** |
| Womac | 022-12045678 |
| Kipp | 022-12345347 |
| Espinal | 022-12345347 |
| Rathjen | 022-12345668 |
| Gupta | 022-12345668 |
| Gravatt | 022-12590678 |
| Ahmed | 022-12590678 |
| Lacy | 022-19342678 |
| Kettner | 022-19342678 |
| Laverdiere | 022-12345678 |
| Romo | 022-10345678 |
| Amdro | 022-10345678 |
| Cray | 022-12857938 |
| Um | 022-10345678 |
| Sandro | 022-12345668 |

SELECT Last\_name, Phone

from employee\_2013 as E, department as D

where E.dpt\_name=D.dpt\_name;

|  |  |
| --- | --- |
| **Last\_name** | **Phone** |
| Womac | 022-12045678 |
| Kipp | 022-12345347 |
| Espinal | 022-12345347 |
| Rathjen | 022-12345668 |
| Gupta | 022-12345668 |
| Gravatt | 022-12590678 |
| Ahmed | 022-12590678 |
| Lacy | 022-19342678 |
| Kettner | 022-19342678 |
| Laverdiere | 022-12345678 |
| Romo | 022-10345678 |
| Amdro | 022-10345678 |
| Cray | 022-12857938 |
| Um | 022-10345678 |
| Sandro | 022-12345668 |

SELECT dpt\_name,Budget

from department

where Budget between 1300000000 and 1600000000;

|  |  |
| --- | --- |
| **dpt\_name** | **Budget** |
| Marketing | 1500000000.00 |
| Sales | 1500000000.00 |
| Operations | 1300000000.00 |

SELECT dpt\_name,Budget

from department

where Budget not between 1300000000 and 1600000000;

|  |  |
| --- | --- |
| **dpt\_name** | **Budget** |
| R & D | 1800000000.00 |
| Advertising | 1200000000.00 |
| Accounting | 1000000000.00 |
| Human Resources | 1700000000.00 |
| Finance | 100000000.00 |
| Community Wellfare | 10070000.00 |

(SELECT ID,first\_name

from employee\_2012

where dpt\_name='Human Resources')

union

(SELECT ID, first\_name

from employee\_2013

where dpt\_name='Human Resources');

|  |  |
| --- | --- |
| **ID** | **first\_name** |
| 106 | Dorotha |
| 124 | Aliza |
| 126 | Alex |

(SELECT ID,first\_name as employed\_before\_2013

from employee\_2012

where dpt\_name='Human Resources')

intersect

(SELECT ID, first\_name as employed\_before\_2013

from employee\_2013

where dpt\_name='Human Resources');

|  |  |
| --- | --- |
| **ID** | **employed\_before\_2013** |
| 106 | Dorotha |
| 126 | Alex |

SELECT UPPER(dpt\_name)

from department;

|  |
| --- |
| **(No column name)** |
| R & D |
| MARKETING |
| SALES |
| ADVERTISING |
| ACCOUNTING |
| OPERATIONS |
| HUMAN RESOURCES |
| FINANCE |
| COMMUNITY WELLFARE |

SELECT LOWER(dpt\_name)

from department;

|  |
| --- |
| **(No column name)** |
| r & d |
| marketing |
| sales |
| advertising |
| accounting |
| operations |
| human resources |
| finance |
| community welfare |

SELECT LEN(dpt\_name) as dpt\_name\_length

from department;

|  |
| --- |
| **dpt\_name\_length** |
| 5 |
| 9 |
| 5 |
| 11 |
| 10 |
| 10 |
| 15 |
| 7 |
| 18 |

SELECT RIGHT(DOB,4) as Year\_Born, First\_name, Last\_name

from employee\_2012;

|  |  |  |
| --- | --- | --- |
| **Year\_Born** | **First\_name** | **Last\_name** |
| 1991 | Qndra | Mery |
| 1994 | Ramaya | Gupta |
| 1991 | Sadye | Gravatt |
| 1994 | Fayed | Ahmed |
| 1994 | Pastro | Kurt |
| 1993 | Hester | Kettner |
| 1992 | Zafar | Fareeq |
| 1993 | Dorotha | Romo |
| 1994 | Lindsey | Cray |
| 1995 | Alex | Amdro |
| 1992 | Aliza | Um |

SELECT LEFT(Budget,3) as Budget\_in\_Cr, dpt\_name

from department;

|  |  |
| --- | --- |
| **Budget\_in\_Cr** | **dpt\_name** |
| 180 | R & D |
| 150 | Marketing |
| 150 | Sales |
| 120 | Advertising |
| 100 | Accounting |
| 130 | Operations |
| 170 | Human Resources |
| 100 | Finance |

SELECT dpt\_name, MAX(Salary) as Maximum\_Pay

from employee\_2012

group by dpt\_name;

|  |  |
| --- | --- |
| **dpt\_name** | **Maximum\_Pay** |
| Accounting | 1454083.00 |
| Advertising | 1654000.00 |
| Community Wellfare | 1661847.00 |
| Finance | 1284369.00 |
| Human Resources | 1570000.00 |
| Marketing | 1454083.00 |
| Operations | 1254083.00 |
| Sales | 1454083.00 |

SELECT dpt\_name, MIN(Salary) as Minimum\_Pay

from employee\_2012

group by dpt\_name;

|  |  |
| --- | --- |
| **dpt\_name** | **Minimum\_Pay** |
| Accounting | 1454083.00 |
| Advertising | 1554083.00 |
| Community Wellfare | 1661847.00 |
| Finance | 1284369.00 |
| Human Resources | 1370990.00 |
| Marketing | 1454083.00 |
| Operations | 1254083.00 |
| Sales | 1454083.00 |

SELECT dpt\_name, SUM(Salary) as Department\_Cost

from employee\_2012

group by dpt\_name;

|  |  |
| --- | --- |
| **dpt\_name** | **Department\_Cost** |
| Accounting | 1454083.00 |
| Advertising | 3208083.00 |
| Community Welfare | 1661847.00 |
| Finance | 2568738.00 |
| Human Resources | 2940990.00 |
| Marketing | 1454083.00 |
| Operations | 1254083.00 |
| Sales | 1454083.00 |

SELECT dpt\_name, AVG(Salary) as Average\_Pay

from employee\_2012

group by dpt\_name;

|  |  |
| --- | --- |
| **dpt\_name** | **Average\_Pay** |
| Accounting | 1454083.000000 |
| Advertising | 1604041.500000 |
| Community Wellfare | 1661847.000000 |
| Finance | 1284369.000000 |
| Human Resources | 1470495.000000 |
| Marketing | 1454083.000000 |
| Operations | 1254083.000000 |
| Sales | 1454083.000000 |

SELECT COUNT(\*) as #\_of\_employees\_in\_2012

from employee\_2012;

|  |
| --- |
| **#\_of\_employees\_in\_2012** |
| 11 |

SELECT dpt\_name, AVG(Salary) as Average\_Pay

from employee\_2012

group by dpt\_name

having AVG(Salary)>1300000;

|  |  |
| --- | --- |
| **dpt\_name** | **Average\_Pay** |
| Accounting | 1454083.000000 |
| Advertising | 1604041.500000 |
| Community Wellfare | 1661847.000000 |
| Human Resources | 1470495.000000 |
| Marketing | 1454083.000000 |
| Sales | 1454083.000000 |

SELECT ID, Last\_name, first\_name

from employee\_2013

where dpt\_name is not NULL and

ID in(select ID

from employee\_2012

here dpt\_name is not NULL);

|  |  |  |
| --- | --- | --- |
| **ID** | **Last\_name** | **first\_name** |
| 127 | Rathjen | Maryland |
| 117 | Gupta | Ramaya |
| 107 | Gravatt | Sadye |
| 123 | Ahmed | Fayed |
| 121 | Kettner | Hester |
| 120 | Laverdiere | Sadye |
| 106 | Romo | Dorotha |
| 126 | Amdro | Alex |
| 105 | Cray | Lindsey |
| 124 | Um | Aliza |

SELECT ID, Last\_name, first\_name

from employee\_2013

where dpt\_name is not NULL and

ID not in(select ID

from employee\_2012

where dpt\_name is not NULL);

|  |  |  |
| --- | --- | --- |
| **ID** | **Last\_name** | **first\_name** |
| 103 | Womac | Richie |
| 118 | Kipp | Scottie |
| 100 | Espinal | Val |
| 125 | Lacy | Zandra |
| 111 | Sandro | Azule |

SELECT dpt\_name, Last\_name, first\_name

from employee\_2013

where dpt\_name not in ('Human Resources', 'Marketing');

|  |  |  |
| --- | --- | --- |
| **dpt\_name** | **Last\_name** | **first\_name** |
| R & D | Womac | Richie |
| Sales | Rathjen | Maryland |
| Sales | Gupta | Ramaya |
| Advertising | Gravatt | Sadye |
| Advertising | Ahmed | Fayed |
| Finance | Lacy | Zandra |
| Finance | Kettner | Hester |
| Operations | Laverdiere | Sadye |
| Accounting | Cray | Lindsey |
| Sales | Sandro | Azule |

SELECT employee\_2013.Last\_name, employee\_2013.ID, employee\_2012.dpt\_name

from employee\_2013 inner join employee\_2012

on employee\_2013.dpt\_name=employee\_2012.dpt\_name;

|  |  |  |
| --- | --- | --- |
| **Last\_name** | **ID** | **dpt\_name** |
| Kipp | 118 | Marketing |
| Espinal | 100 | Marketing |
| Gravatt | 107 | Advertising |
| Ahmed | 123 | Advertising |
| Gravatt | 107 | Advertising |
| Ahmed | 123 | Advertising |
| Rathjen | 127 | Sales |
| Gupta | 117 | Sales |
| Sandro | 111 | Sales |
| Lacy | 125 | Finance |
| Kettner | 121 | Finance |
| Lacy | 125 | Finance |
| Kettner | 121 | Finance |
| Laverdiere | 120 | Operations |
| Romo | 106 | Human Resources |
| Amdro | 126 | Human Resources |
| Um | 124 | Human Resources |
| Cray | 105 | Accounting |
| Romo | 106 | Human Resources |
| Amdro | 126 | Human Resources |
| Um | 124 | Human Resources |

SELECT employee\_2013.Last\_name, employee\_2013.ID, employee\_2012.dpt\_name

from employee\_2013 left join employee\_2012

on employee\_2013.dpt\_name=employee\_2012.dpt\_name;

|  |  |  |
| --- | --- | --- |
| **Last\_name** | **ID** | **dpt\_name** |
| Womac | 103 | NULL |
| Kipp | 118 | Marketing |
| Espinal | 100 | Marketing |
| Rathjen | 127 | Sales |
| Gupta | 117 | Sales |
| Gravatt | 107 | Advertising |
| Gravatt | 107 | Advertising |
| Ahmed | 123 | Advertising |
| Ahmed | 123 | Advertising |
| Lacy | 125 | Finance |
| Lacy | 125 | Finance |
| Kettner | 121 | Finance |
| Kettner | 121 | Finance |
| Laverdiere | 120 | Operations |
| Romo | 106 | Human Resources |
| Romo | 106 | Human Resources |
| Amdro | 126 | Human Resources |
| Amdro | 126 | Human Resources |
| Cray | 105 | Accounting |
| Um | 124 | Human Resources |
| Um | 124 | Human Resources |
| Sandro | 111 | Sales |

SELECT employee\_2013.Last\_name, employee\_2013.ID, employee\_2012.dpt\_name

from employee\_2013 right join employee\_2012

on employee\_2013.dpt\_name=employee\_2012.dpt\_name;

|  |  |  |
| --- | --- | --- |
| **Last\_name** | **ID** | **dpt\_name** |
| Kipp | 118 | Marketing |
| Espinal | 100 | Marketing |
| Gravatt | 107 | Advertising |
| Ahmed | 123 | Advertising |
| Gravatt | 107 | Advertising |
| Ahmed | 123 | Advertising |
| Rathjen | 127 | Sales |
| Gupta | 117 | Sales |
| Sandro | 111 | Sales |
| Lacy | 125 | Finance |
| Kettner | 121 | Finance |
| Lacy | 125 | Finance |
| Kettner | 121 | Finance |
| Laverdiere | 120 | Operations |
| Romo | 106 | Human Resources |
| Amdro | 126 | Human Resources |
| Um | 124 | Human Resources |
| Cray | 105 | Accounting |
| Romo | 106 | Human Resources |
| Amdro | 126 | Human Resources |
| Um | 124 | Human Resources |
| NULL | NULL | Community Wellfare |

SELECT employee\_2013.Last\_name, employee\_2013.ID, employee\_2012.dpt\_name

from employee\_2013 full join employee\_2012

on employee\_2013.dpt\_name=employee\_2012.dpt\_name;

|  |  |  |
| --- | --- | --- |
| **Last\_name** | **ID** | **dpt\_name** |
| Womac | 103 | NULL |
| Kipp | 118 | Marketing |
| Espinal | 100 | Marketing |
| Rathjen | 127 | Sales |
| Gupta | 117 | Sales |
| Gravatt | 107 | Advertising |
| Gravatt | 107 | Advertising |
| Ahmed | 123 | Advertising |
| Ahmed | 123 | Advertising |
| Lacy | 125 | Finance |
| Lacy | 125 | Finance |
| Kettner | 121 | Finance |
| Kettner | 121 | Finance |
| Laverdiere | 120 | Operations |
| Romo | 106 | Human Resources |
| Romo | 106 | Human Resources |
| Amdro | 126 | Human Resources |
| Amdro | 126 | Human Resources |
| Cray | 105 | Accounting |
| Um | 124 | Human Resources |
| Um | 124 | Human Resources |
| Sandro | 111 | Sales |
| NULL | NULL | Community Wellfare |