INFO20003 Week 7 Lab Solutions

Section 1: More SQL

◆ **Task 1.4** Type a guery that finds the item ids of the items sold on the second floor.

```
SELECT DISTINCT saleitem.itemid
FROM saleitem NATURAL JOIN sale NATURAL JOIN department
WHERE department.floor = 2
ORDER BY saleitem.itemid;
```

◆ **Task 1.6** Type a query that for each item, gives its type, the departments that sell the item, and the floor location of these departments.

```
SELECT DISTINCT item.Name, item.Type, sale.DepartmentID,
  department.Floor
FROM item
  INNER JOIN saleitem ON item.itemID = saleitem.itemID
  INNER JOIN sale ON saleitem.saleID = sale.saleID
  INNER JOIN department ON pale departmentID = department.DepartmentID
  ORDER SOLEMANDE, Sale.DepartmentID;
```

◆ Task 1.14 The company's building is going to be renovated. The renovations will include all departments on floors 3 yand of the building plus the 'Recreation' department. If additional funding is approved, the rest of floor 2 may be included in the renovation as well. For all employees, print their name and a text value 'Yes', 'Maybe' or 'No' that states whether they will be affected by the renovations. Order by last name.

Section 3: Relational divides using EXISTS and NOT EXISTS

◆ Task 3.4 Type a query that lists the suppliers that deliver only items sold by the Books department (in other words, suppliers for which every delivery is of an item or items sold by the Books department).

```
SELECT supplier.Name
FROM supplier
WHERE supplierID IN
   (SELECT supplierID
   FROM delivery)
AND NOT EXISTS
   (SELECT *
   FROM deliveryitem NATURAL JOIN delivery
   WHERE delivery.supplierID = supplier.supplierID
   AND itemID NOT IN
        (SELECT itemID
        FROM saleitem NATURAL JOIN sale NATURAL JOIN department
        WHERE department.Name = 'Books'));
```

This is one of many possible solutions.

Assignment Project Exam Help

https://powcoder.com

Add WeChat powcoder