# **HIT234 - Database Concepts**





### **Answer**

Attempt to Answer **ALL** Tutorial questions below:

## **SECTION 1 - SINGLE TABLES QUERIES**

# **Functions Count Sum Avg**

1. Find the number of items

SELECT COUNT(\*) FROM ITEM;

SELECT COUNT (ITEMNO) FROM ITEM;

SELECT ITEMNO FROM item GROUP BY ITEMNO;

2. Find the average ITEMPRICE of an

item SELECT AVG(ITEMITEMPRICE)

FROM ITEM;

3. Find the sum of all the item prices

SELECT SUM(ITEMPRICE) FROM ITEM;

4. Find the number of CUSTOMERs in each CUSTSTATE

SELECT COUNT(CUSTABN), CUSTSTATE

FROM CUSTOMER

**GROUP BY CUSTSTATE**;

## More On Functions (Max)

5. The maximum number sold for each item

SELECT ITEMNO, max(quantity) FROM INVOICEITEM GROUP BY ITEMNO ORDER BY ITEMNO;

6. The number of each item that has been sold

SELECT ITEMNO, sum(quantity) FROM INVOICEITEM GROUP BY ITEMNO ORDER BY ITEMNO;

#### **SECTION 2 - MULTIPLE TABLE QUERIES**

- 1. Find the customer name for invoice 12. Find their details.
- SELECT CUSTNAME FROM CUSTOMER c, INVOICE i

WHERE c.CUSTABN = i.CUSTABN AND i.INVOICENO = 12;

- SELECT c.\* FROM CUSTOMER c, INVOICE i

WHERE c.CUSTABN = i.CUSTABN AND i.INVOICENO = 12;

2. Find the names of all customers who brought an item with Tube in its ITEMDESC

SELECT distinct c.CUSTNAME

FROM CUSTOMER c, INVOICE i, INVOICEITEM ii, ITEM it

WHERE c.CUSTABN = i.CUSTABN AND i.INVOICENO = ii.INVOICENO AND ii.ITEMNO = it.ITEMNO AND it.ITEMDESC LIKE '%Tube%';

3. Find the CUSTOMERs who live in NSW or Qld who brought Screens

SELECT c.CUSTNAME

FROM CUSTOMER c, INVOICE I, INVOICEITEM ii,

ITEM it WHERE c.CUSTABN = i.CUSTABN

AND i.INVOICENO = ii.INVOICENO

AND ii.ITEMNO = it.ITEMNO AND it.ITEMDESC LIKE

'%Screen%'AND (c.CUSTSTATE= 'NSW' or c.CUSTSTATE

='Qld');