*-- Answer 4*

*-- Ans 4(a)*

**SELECT** c.customer\_name **as** Customer, **count**(\*) **as** 'Number of Purchases' **FROM** order\_header o **inner** **join** customer c **on** c.customer\_id = o.customer\_id **group** **by** c.customer\_id **order** **by** c.customer\_name;

*-- Ans 4(b)*

**SELECT** c.customer\_name **as** Customer, **concat**("$",**FORMAT**(**sum**(o.total\_price),4)) **as** 'Sum of Purchase Totals' **FROM** order\_header o **inner** **join** customer c;

*-- Ans 4(c)*

**SELECT** **sum**(o.order\_qty) **as** 'Number of Products Sold', p.product\_name **as** product\_name **FROM** product p **inner** **join** order\_detail o **on** p.product\_id = o.product\_id **group** **by** p.product\_id **order** **by** **sum**(o.order\_qty) **desc**;

*-- Ans 4(d)*

**SELECT** o.order\_header\_id, p.product\_name, od.order\_qty, c.customer\_name,

o.order\_date, o.total\_price **FROM** order\_detail od **inner** **join** product p **on** p.product\_id = od.product\_id

**inner** **join** order\_header o **on** o.order\_header\_id = od.order\_header\_id

**inner** **join** customer c **on** c.customer\_id = o.customer\_id **where** o.order\_date **between** '2022-01-01' **and**

'2022-01-07';

*-- Ans 4(e)*

**SELECT** **sum**(od.order\_qty) **as** 'Number of Guitars Sold' **FROM** order\_detail od **inner** **join** product p **on** od.product\_id = p.product\_id **where** p.product\_description **LIKE** '%acoustic%' **OR** p.product\_description **LIKE** '%electric%';

*-- Answer 5*

**START** **TRANSACTION**;

**SELECT** @orderNumber:=**MAX**(order\_header\_id)+1 **FROM** order\_header;

*-- Ans 5(a)*

**INSERT** **INTO** order\_header(customer\_id,order\_date,total\_price) **VALUES** (9,'2022-02-22',876.24);

*-- Ans 5(b)*

**INSERT** **INTO** order\_detail(order\_header\_id,product\_id,order\_qty,sub\_total) **VALUES** (@orderNumber,4,1,450.25);

**INSERT** **INTO** order\_detail(order\_header\_id,product\_id,order\_qty,sub\_total) **VALUES** (@orderNumber,7,1,425.99);

*-- Ans 5(c)*

**UPDATE** product **SET** quantity\_in\_stock=quantity\_in\_stock-1 **where** product\_id = 4;

**UPDATE** product **SET** quantity\_in\_stock=quantity\_in\_stock-1 **where** product\_id = 7;

**COMMIT**;

*-- Ans 5(d)*

**SELECT** o.order\_header\_id, o.order\_date, c.customer\_name, p.product\_name, p.quantity\_in\_stock,

od.sub\_total, o.total\_price **FROM** order\_detail od **inner** **join** product p **on** p.product\_id = od.product\_id

**inner** **join** order\_header o **on** o.order\_header\_id = od.order\_header\_id

**inner** **join** customer c **on** c.customer\_id = o.customer\_id **where** o.order\_header\_id = 8