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A290-SQL

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Assignment 1

***Part I***

**Customers Orders**

Cust\_id (PK) order\_num (PK)

Cust\_name order\_date

Cust\_address cust\_id (FK) [customers]

Cust\_city

Cust\_state

Cust\_zip

Cust\_country

Cust\_contact

Cust\_email

**OrderItems**

Order\_num (FK) [orders]

Order\_item

Prod\_id (FK) [products]

Quantity

Item\_price

**Vendors Products**

Vend\_id (PK) prod\_id (PK)

Vend\_name vend\_id (FK) [vendors]

Vend\_address prod\_name

Vend\_city prod\_price

Vend\_state prod\_desc

Vend\_zip

Vend\_country

***Relationships***

Customers -> Orders : one to many

Vendors -> Products : one to many

Orders -> OrderItems : one to many

Products -> OrderItems : one to one

***Part II***

1. SELECT cust\_name

FROM `customers`;

2. SELECT COUNT(DISTINCT cust\_zip)

FROM `customers`;

3. SELECT \*

FROM `products`

ORDER BY prod\_id DESC

LIMIT 5;

4. SELECT \*

FROM `orderitems`

ORDER BY prod\_id;

5. SELECT \*

FROM `orderitems`

ORDER BY order\_num, quantity;

6. SELECT \*

FROM `orderitems`

ORDER BY quantity;

7. SELECT \*

FROM `orderitems`

WHERE quantity > 30;

8. SELECT \*

FROM `orderitems`

WHERE quantity > 30 AND item\_price > 3;

9. SELECT \*

FROM `products`

WHERE prod\_price > 5;

10. SELECT \*

FROM `products`

WHERE vend\_id <> ‘BRS01’;

11. SELECT \*

FROM `orderitems`

WHERE quantity BETWEEN 25 AND 50

AND item\_price BETWEEN 2 AND 5;

12. SELECT \*

FROM `products`

WHERE vend\_id = ‘FNG01’ OR vend\_id = ‘JTS01’;

13. SELECT \*

FROM `products`

WHERE (vend\_id = “BRE02” OR vend\_id = “BRS01”)

AND prod\_price < 9;

14. SELECT COUNT(prod\_id)

FROM `products`

WHERE prod\_desc LIKE ‘%doll%’;

15. SELECT order\_num, prod\_id, CONCAT(quantity, ‘ : ‘, (item\_price \* quantity)) AS Total\_Sales

FROM `orderitems`;