

Table and Data

CITIES TABLE

	city	state
▶	Pune	Maharashtra
	Vadodara	Gujarat

WAREHOUSES TABLE

	wid	wname	location	city
▶	1	WEST WAREHOUSE	Highway	Pune
	2	Amazon warehouse	Cross road	Vadodara
	3	Flipkart warehouse	City center	Pune
*	NULL	NULL	NULL	NULL

STORES TABLE

	sid	storename	location	warehouse
▶	1	D-Mart	Pune	1
	2	Jio-Mart	Vadodara	2
	3	D-Mart	Vadodara	1
*	NULL	NULL	NULL	NULL

CUSTOMER TABLE

	cno	cname	address	city
▶	1	Patil	Opp City Hospital, India	Pune
	2	Patel	Near Railway Station, India	Vadodara
	3	Shrivastav	Twin towers, India	Pune
*	NULL	NULL	NULL	NULL

ORDERINFO TABLE

	ono	ordered_by	odate
▶	1	1	2022-10-05
	2	1	2022-10-05
	3	2	2022-10-05
*	NULL	NULL	NULL

ITEMS TABLE

	itemno	itemName	weight	price
▶	1	KEYBOARD	250.00	500.00
	2	MOUSE	100.00	300.00
*	NULL	NULL	NULL	NULL

ITEMS_ORDERED TABLE

	itemno	itemname	orderno	quantity
▶	1	KEYBOARD	1	5
	1	KEYBOARD	2	10
	2	MOUSE	1	5
	2	MOUSE	3	15
*	NULL	NULL	NULL	NULL

STORE_ITEMS Table

	store	item	quantity
▶	1	1	50
	2	1	100
	1	2	125

Queries

Find the item that has minimum weight

SELECT * FROM ITEMS WHERE weight=(SELECT min(weight) from ITEMS);

	itemno	itemName	weight	price
▶	2	MOUSE	100.00	300.00
*	NULL	NULL	NULL	NULL

Find the different warehouses in “Pune”.

SELECT * FROM WAREHOUSES WHERE city="Pune";

	wid	wname	location	city
▶	1	WEST WAREHOUSE	Highway	Pune
	3	Flipkart warehouse	City center	Pune
*	NULL	NULL	NULL	NULL

Find the details of items ordered by a customer “Mr. Patil”.

SELECT * FROM ITEMS_ORDERED having orderno IN (SELECT ono from ORDERINFO where ordered_by IN (SELECT cno FROM CUSTOMER WHERE cname = 'Patil'));

	itemno	itemname	orderno	quantity
▶	1	KEYBOARD	1	5
	1	KEYBOARD	2	10
	2	MOUSE	1	5
*	NULL	NULL	NULL	NULL

Find a Warehouse which has maximum stores.

SELECT name, max(c) from (SELECT WAREHOUSES.wname as name,
count(STORES.warehouse) as c from STORES LEFT JOIN WAREHOUSES ON
STORES.warehouse = WAREHOUSES.wid group by STORES.warehouse having count(*) as
store_count;

	name	max(c)
▶	WEST WAREHOUSE	2

Find an item which is ordered for a minimum number of times.

SELECT itemName, min(q) from (SELECT itemname, SUM(quantity) as q from
ITEMS_ORDERED GROUP BY itemno) as derived_table;

	itemName	min(q)
▶	KEYBOARD	15

Find the detailed orders given by each customer.

SELECT * FROM ITEMS_ORDERED INNER JOIN ORDERINFO ON
ITEMS_ORDERED.orderno = ORDERINFO.ono INNER JOIN CUSTOMER on
ORDERINFO.ordered_by = CUSTOMER.cno;

	itemno	itemname	orderno	quantity	ono	ordered_by	odate	cno	cname	address	city
▶	1	KEYBOARD	1	5	1	1	2022-10-05	1	Patil	Opp City Hospital, India	Pune
	1	KEYBOARD	2	10	2	1	2022-10-05	1	Patil	Opp City Hospital, India	Pune
	2	MOUSE	1	5	1	1	2022-10-05	1	Patil	Opp City Hospital, India	Pune
	2	MOUSE	3	15	3	2	2022-10-05	2	Patel	Near Railway Station, India	Vadodara