SQL Task 4

Multi-Table JOINs - Task 4

RDBMS used: MySql

> Creating "orders" table

create table orders(
order_id int NOT NULL AUTO_INCREMENT,
order_date date,
prod_id int,
quantity int,
order_status varchar(20),
region_id varchar(3),
PRIMARY KEY(order_id),
FOREIGN KEY(prod_id) references products(prod_id)
);

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	Field	Type	Null	Key	Default	Extra
٠	order_id	int(11)	NO	PRI	NULL	auto_increment
	order_date	date	YES		NULL	
	prod_id	int(11)	YES	MUL	NULL	
	quantity	int(11)	YES		NULL	
	order_status	varchar(20)	YES		NULL	
	region_id	varchar(3)	YES		NULL	

> Displaying records in "orders" table

	order_id	order_date	prod_id	quantity	order_status	region_id
•	1	2020-04-28	1002	3	shipped	TN
	2	2020-07-17	1001	4	packaged	AP
	3	2021-10-08	1002	5	shipped	TN
	4	2021-02-22	1003	1	shipped	KA
	5	2020-01-15	1001	3	delivered	DL
	NULL	NULL	NULL	NULL	NULL	NULL

> INNER JOIN between products and orders tables

 $select\ orders.order_id,\ products.prod_name,\ products.prod_id,\ products.price,\ orders.quantity$

from products INNER JOIN orders on products.prod_id=orders.prod_id;

	order_id	prod_name	prod_id	price	quantity
	1	loafers	1002	3500	3
	2	sneakers	1001	2500	4
	3	loafers	1002	3500	5
١	4	boots	1003	3000	1
	5	sneakers	1001	2500	3

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> LEFT OUTER JOIN

select products.prod_id, products.prod_name, products.price, orders.quantity, orders.order_status

from products LEFT JOIN orders on products.prod_id=orders.prod_id;

	prod_id	prod_name	price	quantity	order_status
•	1002	loafers	3500	3	shipped
	1001	sneakers	2500	4	packaged
	1002	loafers	3500	5	shipped
	1003	boots	3000	1	shipped
	1001	sneakers	2500	3	delivered
	1004	flip-flops	500	NULL	NULL

> RIGHT OUTER JOIN

select products.prod_name, products.price, orders.quantity, orders.order_status from orders RIGHT JOIN products on products.prod_id=orders.prod_id;

	prod_name	price	quantity	order_status
•	loafers	3500	3	shipped
	sneakers	2500	4	packaged
	loafers	3500	5	shipped
	boots	3000	1	shipped
	sneakers	2500	3	delivered
	flip-flops	500	NULL	NULL

> Selecting values between a certain date

select products.prod_id, products.prod_name, orders.order_date, orders.order_status, orders.region_id

from products INNER JOIN orders on products.prod_id=orders.prod_id where orders.order_date between "2020/01/01" and "2020/12/01";

	prod_id	prod_name	order_date	order_status	region_id
	1002	loafers	2020-04-28	shipped	TN
	1001	sneakers	2020-07-17	packaged	AP
	1001	sneakers	2020-01-15	delivered	DL