272 - ASSIGNMENT 2

Information in Cloud (Mini Projects)

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A.) SQLite

SQLite provides a relational database management system. The lite in SQLite means light weight in terms of setup. It can be installed as a plugin in Mozilla Firefox.

Purchase Order Management System

Purchase Order management schema consists of three tables:

1. Supplier Table

create table supplier (supplierid INTEGER PRIMARY KEY, suppliername VARCHAR(30) NOT NULL).

```
create table supplier(supplierid INTEGER PRIMARY KEY, suppliername VARCHAR(30) NOT NULL)

no output
```

Sample Data:

```
insert into supplier values(1,'Target');
insert into supplier values(3,'Walmart');
```

2. Products Table

create table products (product_id INTEGER PRIMARY KEY, supplierid INTEGER,product_price VARCHAR(50), product_description VARCHAR(200)).

```
create table products(product_id INTEGER PRIMARY KEY, supplierid INTEGER, product_price VARCHAR(50), product_description VARCHAR(200))

no output
```

Sample Data:

```
insert into products values (30,3,'50$','Market Pantry Cookies'); insert into products values (56,23,'60$','Up and Up Skin Treatment'); insert into products values (23,1,'50$','Room Essentials Crockery');
```

3. Customer Table

create table customer(customer_id INTEGER PRIMARY KEY, product_id INTEGER, cutomer name varchar(50)).

```
create table customer (customer_id INTEGER PRIMARY KEY, product_id INTEGER , cutomer_name varvhar(50))

no output
```

Sample Data:

```
insert into customer values (20,30,'Kevin Nguyen'); insert into customer values (23,32,'Pranjal Sharma'); insert into customer values (32,23,'Rachit Saxena');
```

QUERIES PERFORMED ON SAMPLE DATA

INNER JOIN

select supplierid,product_price,product_description,customer_id,customer_name from products inner join customer where products.product_id=customer.product_id.

RIGHT JOIN

select supplierid,product_price,product_description,customer_id,cutomer_name from products right join customer on products.product_id=customer.product_id.

select supplierid, product_price, product_description, customer_id, cutomer_name from products right join customer on products.product_id=customer.product_id

RIGHT and FULL OUTER JOINs are not currently supported

LEFT JOIN

select supplierid,product_price,product_description,customer_id,cutomer_name from products left join customer on products.product_id=customer.product_id

UPDATE

UPDATE supplier

SET suppliername="Spar"

WHERE supplierid=1

ORDER supplierid

```
UPDATE supplier
SET suppliername="Spar"

WHERE supplierid=1

no output

select * from supplier;

Export supplierid suppliername

1 1 Spar
2 3 Walmart

Enter math.js or SQLite commands
```

ALTER TABLE

ALTER TABLE supplier

RENAME TO inventory;

```
ALTER TABLE supplier
RENAME TO inventory;

no output

select * from inventory;

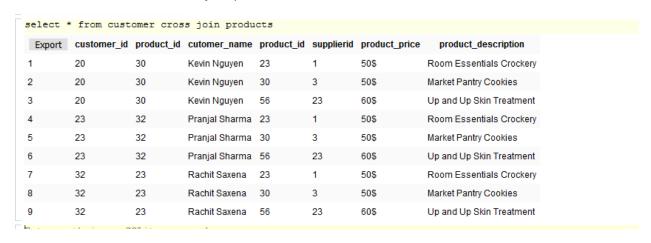
Export supplierid suppliername

1     1     Spar
2     3     Walmart

Enter math.js or SQLite commands
```

CROSS JOIN

select * from customer cross join products



BETWEEN

SELECT supplierid, product_id, product_price FROM products WHERE supplierid BETWEEN 1 and 10 ORDER BY supplierid

DROP

drop table inventory

```
drop table inventory

no output

select * from inventory

no such table: inventory
```

AGGREGATE FUNCTIONS

AVG

SELECT avg(product_price) FROM products

MAX

SELECT max(product_price) FROM products

MIN

SELECT min(product_price) FROM products