Sabaragamuwa
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Faculty of Computing

Department of Computing & Information Systems

ASSIGNMENT 01 & 02

IS5110 – Advanced Database

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Assignment 01

Q1: Write a query to create a temporary table named temp_customers with columns id (INT) and name (VARCHAR(50))

```
CREATE TEMPORARY TABLE temp_customers (
  id INT,
  name VARCHAR(50)
);
```

Q2: Write a query to insert a row with id 1 and name 'John Doe' into the temp_customers temporary table.

```
INSERT INTO temp_customers (id, name)
VALUES (1, 'John Doe');
```

Q3: Write a query to create a temporary table named temp_orders by selecting all columns from an existing table named orders where order_date is within the last 30 days.

```
CREATE TEMPORARY TABLE temp_orders AS
SELECT *
FROM orders
WHERE order_date >= CURDATE() - INTERVAL 30 DAY;
```

Q4: Write a query to update the name column in the temp_customers temporary table to 'Jane Doe' where id is 1.

```
UPDATE temp_customers
SET name = 'Jane Doe'
WHERE id = 1;
```

Q5: Write a query to join the temp_customers temporary table with the temp_orders temporary table on id, and select the name and order_id columns.

```
SELECT c.name, o.order_id

FROM temp_customers c

JOIN temp_orders o ON c.id = o.customer_id;
```

Q6: Write a query to drop the temp_customers temporary table if it exists.

```
DROP TABLE IF EXISTS temp_customers;
```

Assignment 02

Q1: Write a query to create a view named customer_view that selects the id and name columns from the customers table.

```
CREATE VIEW customer_view AS SELECT id, name FROM customers;
```

Q2: Write a query to select all rows from the customer_view view.

```
SELECT * FROM customer_view;
```

Q3: Write a query to create a view named order_summary that selects the customer_id and the total order_amount for each customer from the orders table.

```
CREATE VIEW order_summary AS
SELECT customer_id, SUM(order_amount) AS total_order_amount
FROM orders
GROUP BY customer_id;
```

Q4: Write a query to update the name column in the customers table through the customer_view view where id is 1.

```
UPDATE customers
SET name = ‘pawan’
WHERE id = 1;
```

Q5: Write a query to create a view named product_sales that joins the products and sales tables on product_id and selects the product_name and the total sales_amount for each product..

```
CREATE VIEW product_sales AS
SELECT p.product_name, SUM(s.sales_amount) AS total_sales_amount
FROM products AS p
INNER JOIN sales AS s ON p.product_id = s.product_id
GROUP BY p.product_name;
```

Q6: Write a query to create a view named customer_order_details that selects the customer_name, order_id, and order_date columns from the customers and orders tables using an inner join on customer_id.

```
CREATE VIEW customer_order_details AS
SELECT c.customer_name, o.order_id, o.order_date
FROM customers AS c
INNER JOIN orders AS o ON c.customer_id = o.customer_id;
```