

**Databases and SQL – Ex5****Question 1:**

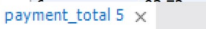
```

use sakila;
CREATE VIEW payment_total AS
SELECT
    customer_id, SUM(amount) AS `Sum`
FROM
    payment
GROUP BY customer_id;

```

This view is not updateable because it contains an aggregate function [sum()].

	customer_id	Sum
▶	1	118.68
	2	128.73
	3	135.74
	4	81.78
	5	144.62

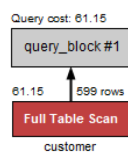
Output → 

**Question 2:**

```

SELECT * FROM customer
WHERE email LIKE 'S%';

```



Output →

**Question 3:**

```

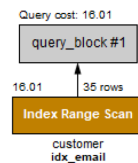
CREATE INDEX idx_email
ON customer (email);

```

**Question 4:**

```
SELECT * FROM customer
WHERE email LIKE 'S%';
```

We got 'Index range scan' Instead of a full table scan, which means there was no longer need to check each item to see if it fits our 'WHERE' statement.



Output →

**Question 5:**

```
SELECT
  customer_id,
  CONCAT(MONTH(payment_date),
        '/',
        YEAR(payment_date)) AS `month`,
  SUM(amount)
FROM
  payment
GROUP BY customer_id , `month` WITH ROLLUP;
```

customer_id	month	sum(amount)
599	5/2005	4.99
599	6/2005	20.96
599	7/2005	29.93
599	8/2005	27.93
599	total	83.81
total	total	67416.51

Output →