

70040 13

Total: 20/20

SQL

Submitters

sf23

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Emarking

Database CW3

Q1 3/3

```
SELECT COUNT(*) AS count_films_not_in_inventory
FROM film
WHERE film_id NOT IN (SELECT film_id FROM inventory);
```

Correct

Q2 3/3

```
WITH TransactionSummary AS (
  SELECT staff_id,
         COUNT(*) AS num_transactions,
         SUM(amount) AS total_transaction_value
  FROM payment
  GROUP BY staff_id
  ORDER BY num_transactions DESC, total_transaction_value DESC
)
SELECT
  MAX(CASE WHEN num_transactions = (SELECT MAX(num_transactions) FROM
TransactionSummary) THEN staff_id END) AS staff_id_max_transactions,
  MAX(CASE WHEN total_transaction_value = (SELECT MAX(total_transaction_value)
FROM TransactionSummary) THEN staff_id END) AS staff_id_max_value
FROM TransactionSummary;
```

Correct

Q3 3/3

```
SELECT store_id
FROM customer
GROUP BY store_id
HAVING COUNT(*) > 300;
```

Correct

Q4 3/3

```
SELECT customer_id, SUM(amount) AS total
FROM payment
GROUP BY customer_id
HAVING SUM(amount) > 200;
```

Correct

Q5 3/3

```
SELECT COUNT(*) AS num_films
FROM film
WHERE rental_rate > (SELECT AVG(rental_rate) FROM film);
```

Correct

Q6 2/5

```
SELECT film.title
FROM film
JOIN inventory ON film.film_id = inventory.film_id
```

-3 Incorrect number of results. There should be 181 results or 164 distinct results if the date includes the 30th. You should use the date() operator for your range queries rather than string match for robustness.

```
JOIN rental ON inventory.inventory_id = rental.inventory_id  
WHERE rental.return_date BETWEEN '2005-05-29' AND '2005-05-30'  
LIMIT 5;
```