**1. \*\*Retrieve all customers:\*\***

```sql

SELECT \* FROM creditcard.customer;

```

**2. \*\*Retrieve all active credit cards:\*\***

```sql

SELECT \* FROM creditcard.cust\_card WHERE Status = 'active';

```

**3. \*\*Retrieve all offers for a specific card type:\*\***

```sql

SELECT o.offer\_name, o.offer\_desc, o.offer\_type

FROM creditcard.offer\_card oc

JOIN creditcard.offers o ON oc.offer\_id = o.offer\_id

WHERE oc.card\_type\_id = <specific\_card\_type\_id>;

```

**4. \*\*Retrieve transaction history for a specific customer:\*\***

```sql

SELECT t.transact\_id, t.transaction\_time, t.mode\_of\_payment, t.transaction\_amount

FROM creditcard.transaction t

WHERE t.cust\_id = <specific\_cust\_id>;

```

**5. \*\*Retrieve customers who used a specific offer:\*\***

```sql

SELECT c.first\_name, c.last\_name

FROM creditcard.offers\_used ou

JOIN creditcard.customer c ON ou.cust\_id = c.cust\_id

WHERE ou.offer\_id\_ = <specific\_offer\_id>;

```

**6. \*\*Retrieve billing information for a specific customer's credit card:\*\***

```sql

SELECT b.billing\_amount, b.Due\_Date, b.Payment\_Date, b.Late\_fee\_charges

FROM creditcard.Billing b

WHERE b.cust\_id = <specific\_cust\_id> AND b.card\_no = <specific\_card\_no>;

```

**7. \*\*Retrieve the total reward points earned by a customer:\*\***

```sql

SELECT SUM(cc.reward\_pts) AS total\_reward\_points

FROM creditcard.cust\_card cc

WHERE cc.cust\_id = <specific\_cust\_id>;

```

**8. \*\*Retrieve the total transaction amount for a specific payment mode:\*\***

```sql

SELECT SUM(t.transaction\_amount) AS total\_amount

FROM creditcard.transaction t

WHERE t.mode\_of\_payment = 'online';

```

**9. \*\*Retrieve the count of active and inactive credit cards for each card type:\*\***

```sql

SELECT cct.card\_type\_name,

SUM(CASE WHEN cc.Status = 'active' THEN 1 ELSE 0 END) AS active\_count,

SUM(CASE WHEN cc.Status = 'inactive' THEN 1 ELSE 0 END) AS inactive\_count

FROM creditcard.credit\_card\_type cct

LEFT JOIN creditcard.cust\_card cc ON cct.card\_type\_id = cc.card\_type\_id

GROUP BY cct.card\_type\_id, cct.card\_type\_name;

```

**10. \*\*Retrieve the top N customers with the highest billing amounts:\*\***

```sql

SELECT c.first\_name, c.last\_name, b.billing\_amount

FROM creditcard.Billing b

JOIN creditcard.customer c ON b.cust\_id = c.cust\_id

ORDER BY b.billing\_amount DESC

LIMIT N;

```

Remember to replace `<specific\_...>` with actual values or modify the queries to match your requirements.

**11. \*\*Retrieve customers who have not used any offers:\*\***

```sql

SELECT c.first\_name, c.last\_name

FROM creditcard.customer c

LEFT JOIN creditcard.offers\_used ou ON c.cust\_id = ou.cust\_id

WHERE ou.cust\_id IS NULL;

```

**12. \*\*Retrieve the average age of customers for each gender:\*\***

```sql

SELECT gender, AVG(age) AS average\_age

FROM creditcard.customer

GROUP BY gender;

```

**13. \*\*Retrieve the card types that have signup bonuses greater than a specific amount:\*\***

```sql

SELECT card\_type\_name

FROM creditcard.credit\_card\_type

WHERE signup\_bonus > <specific\_amount>;

```

**14. \*\*Retrieve customers who have made transactions using a specific payment mode:\*\***

```sql

SELECT DISTINCT c.first\_name, c.last\_name

FROM creditcard.customer c

JOIN creditcard.transaction t ON c.cust\_id = t.cust\_id

WHERE t.mode\_of\_payment = 'offline';

```

**15. \*\*Retrieve the top N offers with the most number of times used:\*\***

```sql

SELECT o.offer\_name, COUNT(ou.offer\_id\_) AS usage\_count

FROM creditcard.offers o

LEFT JOIN creditcard.offers\_used ou ON o.offer\_id = ou.offer\_id\_

GROUP BY o.offer\_id\_, o.offer\_name

ORDER BY usage\_count DESC

LIMIT N;

```

**16. \*\*Retrieve customers whose billing amount is overdue (Payment\_Date < Due\_Date):\*\***

```sql

SELECT c.first\_name, c.last\_name

FROM creditcard.customer c

JOIN creditcard.Billing b ON c.cust\_id = b.cust\_id

WHERE b.Payment\_Date < b.Due\_Date;

```

**17. \*\*Retrieve the total transaction amount for each card type, sorted in descending order:\*\***

```sql

SELECT cct.card\_type\_name, SUM(t.transaction\_amount) AS total\_transaction\_amount

FROM creditcard.credit\_card\_type cct

LEFT JOIN creditcard.transaction t ON cct.card\_type\_id = t.card\_type\_id

GROUP BY cct.card\_type\_id, cct.card\_type\_name

ORDER BY total\_transaction\_amount DESC;

```

**18. \*\*Retrieve the number of customers who have each card type, ordered by card type name:\*\***

```sql

SELECT cct.card\_type\_name, COUNT(cc.cust\_id) AS customer\_count

FROM creditcard.credit\_card\_type cct

LEFT JOIN creditcard.cust\_card cc ON cct.card\_type\_id = cc.card\_type\_id

GROUP BY cct.card\_type\_id, cct.card\_type\_name

ORDER BY cct.card\_type\_name;

```

**19. \*\*Retrieve the average reward points earned per transaction for a specific customer:\*\***

```sql

SELECT AVG(cc.reward\_pts) AS avg\_reward\_per\_transaction

FROM creditcard.cust\_card cc

JOIN creditcard.transaction t ON cc.cust\_id = t.cust\_id AND cc.card\_type\_id = t.card\_type\_id

WHERE cc.cust\_id = <specific\_cust\_id>;

```

**20. \*\*Retrieve customers who have used multiple different offers:\*\***

```sql

SELECT c.first\_name, c.last\_name

FROM creditcard.customer c

JOIN (

SELECT ou.cust\_id

FROM creditcard.offers\_used ou

GROUP BY ou.cust\_id

HAVING COUNT(DISTINCT ou.offer\_id\_) > 1

) multi\_offers ON c.cust\_id = multi\_offers.cust\_id;

```

Feel free to customize these queries according to your specific needs or use them as a basis to create more complex queries.