

Test results

- (1) List the staff members with outstanding leaves entitled:

```
SELECT STAFF_NO, STAFF_DEPT, STAFF_NAME, OUTSTANDING
FROM STAFF, ENTITLEMENT
WHERE STAFF_NO = V_STAFF_NO
AND OUTSTANDING > 0;
```

Sample results:

	STAFF_NO	STAFF_DEPT	STAFF_NAME	OUTSTANDING
1	7021	Sales	Ever Hong	1
2	7162	Sales	Steve Ko	1

- (2) List the staff members who have not taken any vaccines:

```
SELECT DISTINCT STAFF_NO, STAFF_DEPT, STAFF_NAME
FROM STAFF
WHERE STAFF_NO NOT IN
      (SELECT V_STAFF_NO FROM VACCINATION);
```

Sample results:

	STAFF_NO	STAFF_DEPT	STAFF_NAME
1	7014	Sales	Yannie So

- (3) List all doses taken by a selected staff member:

```
SELECT STAFF_NO, STAFF_DEPT, STAFF_NAME, V_DOSE_ID, V_DATE_VAC
FROM STAFF, VACCINATION
WHERE STAFF_NO = V_STAFF_NO
AND STAFF_NO = ?
ORDER BY STAFF_NO, V_DOSE_ID;
```

Sample results based on runtime data input (Staff_No = 7021):

	STAFF_NO	STAFF_DEPT	STAFF_NAME	V_DOSE_ID	V_DATE_VAC
1	7021	Sales	Ever Hong	1	2021-08-19
2	7021	Sales	Ever Hong	2	2021-09-15
3	7021	Sales	Ever Hong	3	2022-03-06

Conclusion

This design basically supports the stated requirements. In future, this design should be enhanced to cater for:

- staff members not taking vaccination leaves for some time
- summary of sick leaves due to leaves taken over 7 days
- additional features as required