

-----  
--QUERIES ON THE TABLES  
-----

-- 1. Search the email list for survey: 500000001

```
select * from EMAIL_LIST where surveyID = '500000001';
```

	surveyID	respEmail	pwd	addedBy
1	500000001	donald.duck@xyz.com	lol@345	900000001
2	500000001	julia.missy@xyz.cof	lol@456	900000001
3	500000001	mark.job@abc.com	lol@123	900000001

-- 2. Find the number of question for each survey

```
select surveyID, count(*) as Question_Count  
from QUESTION  
group by surveyID;
```

	surveyID	Question_Count
1	500000001	4
2	500000002	3

-- 3. Search for non-CIS Faculty who do not have access to the system

```
select ncf.empID, ncf.empName, empEmail, mem.memberID  
from NON_CIS_FACULTY as ncf left join MEMBER as mem  
on ncf.empEmail = mem.mLoginID  
where memberID is NULL;
```

	empID	empName	empEmail	memberID
1	100001	jim corbett	jim.corbett@xyz.com	NULL
2	100003	rachel black	rachel.black@xyz.com	NULL
3	100004	bill green	bill.green@xyz.com	NULL
4	100005	minoca ed	minoca.ed@xyz.com	NULL
5	100006	edward codd	edward.codd@xyz.com	NULL

-- 4. Search the types of question for survey: 500000002

```
select surveyId, qDescription, typeName  
from QUESTION as Ques join QUESTION_TYPE as Ques_Type  
on Ques.typeID = Ques_Type.typeID  
where surveyID = '500000002';
```

	surveyId	qDescription	typeName
1	500000002	What facilities do you most commonly use at the ...	MultiSelection
2	500000002	Do you think the facilitiea are adequate?	SingleSelection
3	500000002	What more do you expect to be provided as faciliti...	Text

-- 5. Find members who created the survey list for each survey

```
select distinct surveyID, m.mName as Email_List_Creator
from EMAIL_LIST join MEMBER as m
on EMAIL_LIST.addedBy = m.memberID;
```

	surveyID	Email_List_Creator
1	500000001	martin luther
2	500000002	jeff archer

-- 6. Displaying Members and names of Admins who created those members. Also displaying the surveys created by those members

```
select MEMBER.memberID, MEMBER.mName as Member_Name, SURVEY.sName as Survey_Name,
ADMIN.adminName as Mem_Created_By
from MEMBER join ADMIN
on MEMBER.createdBy = ADMIN.adminID
left join SURVEY_ROLE
on MEMBER.memberID = SURVEY_ROLE.memberID and roleID = '10001'
left join SURVEY
on SURVEY.surveyID = SURVEY_ROLE.surveyID;
```

	memberID	Member_Name	Survey_Name	Mem_Created_By
1	900000001	martin luther	Course Survey	mary kom
2	900000002	benny dayal	Facilities Survey	mark gates
3	900000003	jeff archer	NULL	mini brown
4	900000004	jim corbett	NULL	mary kom
5	900000005	bill maher	NULL	mark gates
6	900000006	ayn rand	NULL	mini brown

-- 7. Creating a view for Survey with the description for member roles

```
create view SURVEY_MEMBER_ROLE as (
select s.surveyId as Survey_Id, s.sName as Survey_Name, s.sDescription as
Survey_Description,
m.memberID as Member_ID, m.mName as Member_Name, r.roleDescription as Role_Description
from SURVEY as s join SURVEY_ROLE as sr
on s.surveyID = sr.surveyID
join MEMBER as m
on m.memberID = sr.memberID
join ROLE_TYPE as r
on r.roleID = sr.roleID);

select * from SURVEY_MEMBER_ROLE order by survey_id,role_description;
```

	Survey_Id	Survey_Name	Survey_Description	Member_ID	Member_Name	Role_Description
1	500000001	Course Survey	Student satisfaction with course offered	90000001	martin luther	create
2	500000001	Course Survey	Student satisfaction with course offered	90000002	benny dayal	delete
3	500000001	Course Survey	Student satisfaction with course offered	90000004	jim corbett	modify
4	500000001	Course Survey	Student satisfaction with course offered	90000003	jeff archer	review
5	500000002	Facilities Survey	To find facilities related student reponse	90000002	benny dayal	create
6	500000002	Facilities Survey	To find facilities related student reponse	90000003	jeff archer	delete
7	500000002	Facilities Survey	To find facilities related student reponse	90000002	benny dayal	modify
8	500000002	Facilities Survey	To find facilities related student reponse	90000001	martin luther	review

-- 8. Creating a view for Members who are creators and the members who review them

```
create view MEMBER_REVIEWER as (
select CREATOR.surveyid, CREATOR.Creator, REVIEWER.Reviewer from
(select distinct surveyid, mName as Creator
from MEMBER, SURVEY_ROLE, ROLE_TYPE
where MEMBER.memberID = SURVEY_ROLE.memberID
and SURVEY_ROLE.roleID = '10001') as CREATOR,

(select distinct surveyid, mName as Reviewer
from MEMBER, SURVEY_ROLE, ROLE_TYPE
where MEMBER.memberID = SURVEY_ROLE.memberID
and SURVEY_ROLE.roleID = '10004') as REVIEWER
where CREATOR.surveyId = REVIEWER.surveyId
);

select * from MEMBER_REVIEWER order by surveyid;
```

	surveyid	Creator	Reviewer
1	500000001	martin luther	jeff archer
2	500000002	benny dayal	martin luther

-- 9. a sub query of 3 tables showing SurveyName, Question description, Respondent's email and what were the respondent's answers.

```
select T2.respEmail, s.sName, T2.qDescription, T2.aDescription from Survey as s,
(select q.surveyID, q.qDescription, T1.aDescription, T1.respEmail from Question as
q,
(select msa.choiceId, msa.rAnswerID, a.questionID, a.respEmail,
ac.aDescription from MULTI_SELECTION_ANSWER as msa, ANSWER as a,
ANSWER_CHOICE as ac
where msa.rAnswerID = a.rAnswerID and msa.choiceId = ac.answerId and
a.questionId = ac.questionId
UNION
select ssa.choiceId, ssa.rAnswerID, a.questionID, a.respEmail,
ac.aDescription from SINGLE_SELECTION_ANSWER as ssa, ANSWER as a,
ANSWER_CHOICE as ac
where ssa.rAnswerID = a.rAnswerID and ssa.choiceId = ac.answerId and
a.questionId = ac.questionId) T1
where q.questionID = T1.questionID) T2
where s.surveyID = T2.surveyID;
```

	respEmail	sName	qDescription	aDescription
1	mark.job@abc.com	Course Survey	Which courses did you complete this semester?	programming
2	mark.job@abc.com	Course Survey	Which courses did you complete this semester?	statistics
3	mark.job@abc.com	Course Survey	Which courses did you complete this semester?	dbms
4	mark.job@abc.com	Course Survey	Would you like to take more such courses?	yes
5	steve.banon@abc.com	Facilities Survey	What facilities do you most commonly use at the ...	library
6	steve.banon@abc.com	Facilities Survey	What facilities do you most commonly use at the ...	computer lab
7	steve.banon@abc.com	Facilities Survey	What facilities do you most commonly use at the ...	printers and scanners
8	steve.banon@abc.com	Facilities Survey	What facilities do you most commonly use at the ...	study rooms
9	steve.banon@abc.com	Facilities Survey	Do you think the facilities are adequate?	no

-- 10. A join and subquery of 4 tables giving the total time required to complete a survey for each respondent  
 -----with survey and respondent names.

```

select T3.Survey_Name, m.mName as Survey_Created_By, T3.Respondent_Name,
T3.Respondent_Email, T3.Required_Time
from SURVEY_ROLE as sr, MEMBER as m,
    (select T2.surveyID, T2.sName as Survey_Name, r.fName + ' ' + r.lName as
Respondent_Name, T2.respEmail as Respondent_Email,
    T2.Required_Time from Respondent as r,
    (select T1.surveyID, s.sName, T1.respEmail, T1.Required_Time from Survey as
s,
        (select Ques.surveyID, Resp.respEmail,
            RIGHT('0' + CAST(SUM(DATEDIFF(SECOND, StartTime, EndTime)) /
3600 AS VARCHAR),2) + ':' +
            RIGHT('0' + CAST((SUM(DATEDIFF(SECOND, StartTime, EndTime)) /
60) % 60 AS VARCHAR),2) + ':' +
            RIGHT('0' + CAST(SUM(DATEDIFF(SECOND, StartTime, EndTime)) %
60 AS VARCHAR),2) as Required_Time
        from Question as Ques join Answer as Ans
        on Ques.questionID = Ans.questionID
        join Respondent as Resp
        on Resp.respEmail = Ans.respEmail
        group by Ques.surveyID, Resp.respEmail) as T1
    where s.surveyID = T1.surveyID) as T2
    where r.respEmail = T2.respEmail) as T3
where sr.surveyID = T3.surveyID and m.memberID = sr.memberID;

```

	Survey_Name	Survey_Created_By	Respondent_Name	Respondent_Email	Required_Time
1	Course Survey	martin luther	markjob	mark.job@abc.com	00:03:52
2	Facilities Survey	benny dayal	stevebanon	steve.banon@abc.com	00:03:43
3	Facilities Survey	martin luther	stevebanon	steve.banon@abc.com	00:03:43
4	Course Survey	jim corbett	markjob	mark.job@abc.com	00:03:52
5	Course Survey	benny dayal	markjob	mark.job@abc.com	00:03:52
6	Facilities Survey	benny dayal	stevebanon	steve.banon@abc.com	00:03:43
7	Facilities Survey	jeff archer	stevebanon	steve.banon@abc.com	00:03:43
8	Course Survey	jeff archer	markjob	mark.job@abc.com	00:03:52