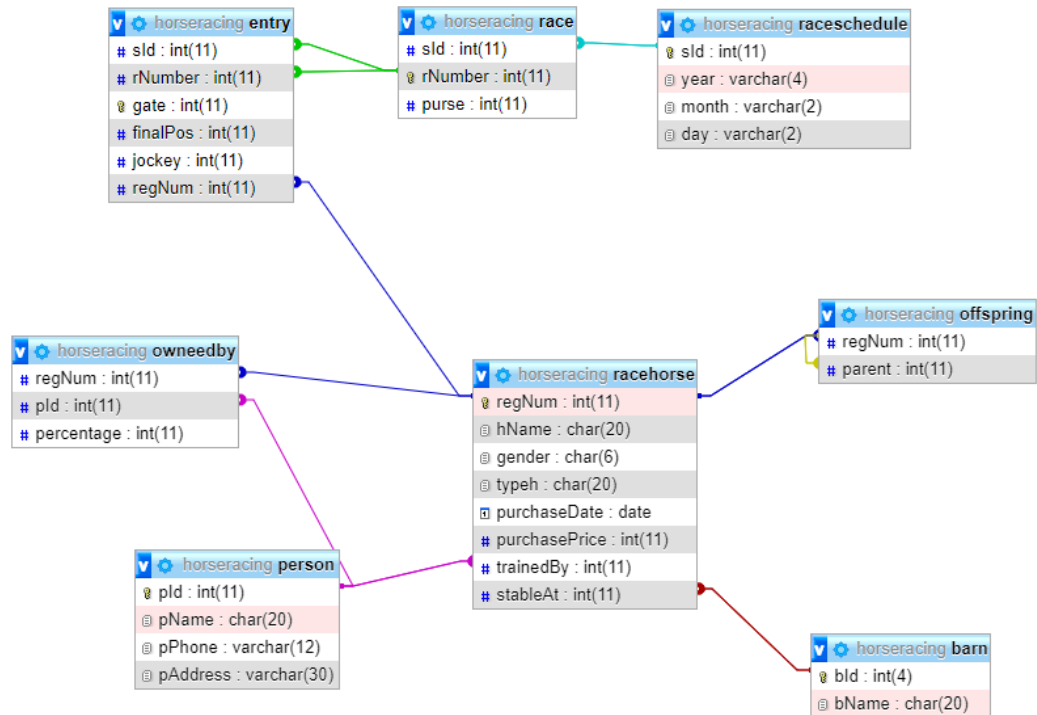


Devin Hardy

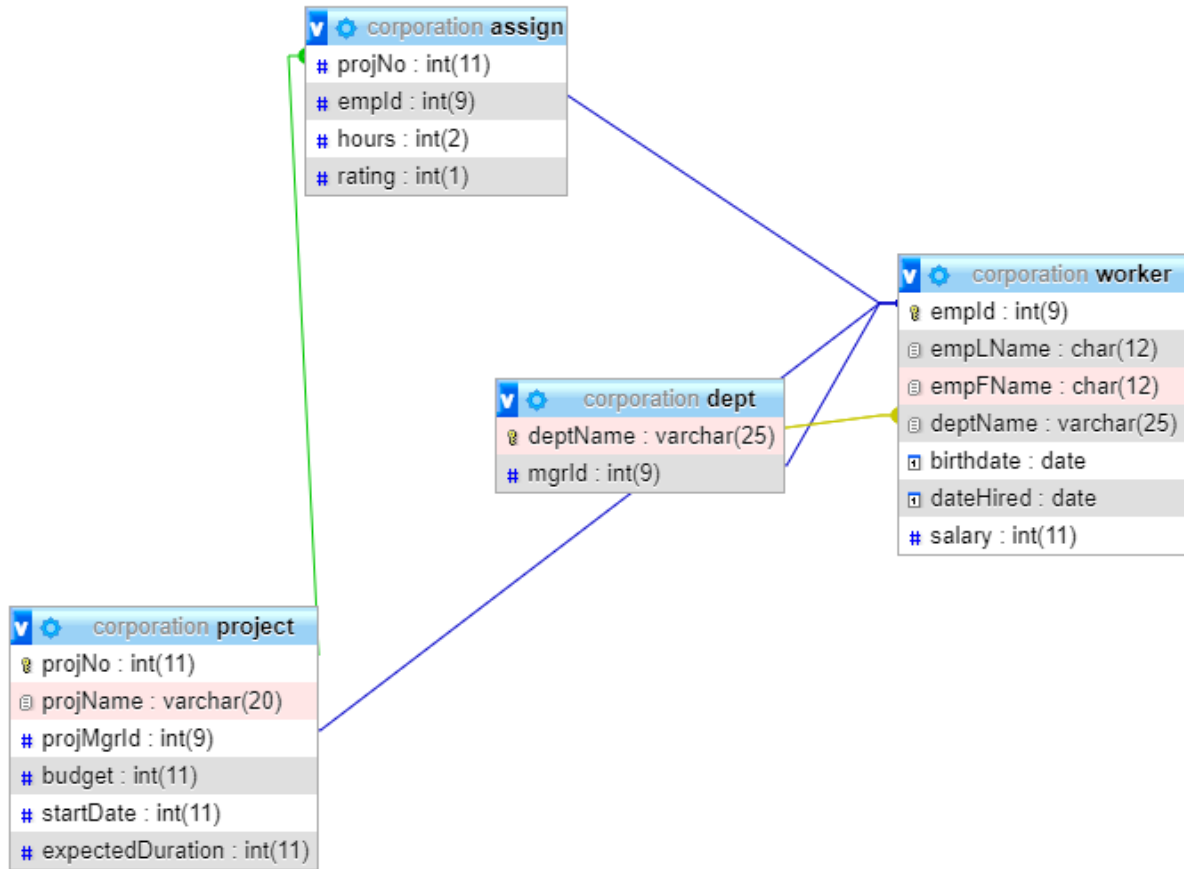
00076619

[Dhardy2@my.athens.edu](mailto:Dhardy2@my.athens.edu)

1)



2)



3)

a.

```
SELECT empFName, empLName
FROM worker
WHERE deptName = 'Accounting'
```

empFName	empLName
Tom	Smith
Mary	Jones
Jane	Burns

b.

```
SELECT empFName, empLName
FROM assign
    LEFT JOIN worker ON assign.empId = worker.empId
WHERE (assign.projNo = '1001')
ORDER BY worker.empFName ASC
```

empFName	empLName
Amanda	Chin
Jane	Burns
Michael	Burns
Tom	Smith

c.

```
SELECT empFName, empLName, MAX(salary)
FROM worker
WHERE deptName = 'Accounting'
```

empFName	empLName	MAX(salary)
Tom	Smith	50000

d.

```
SELECT projNo, projName, projMgrId, MIN(budget), startDate, expectedDuration
```

```
FROM project
```

projNo	projName	projMgrId	MIN(budget)	startDate	expectedDuration
1001	Jupiter	101	300000	1	50

e.

```
SELECT empFName, empLName, deptName
```

```
FROM (worker NATURAL JOIN assign)
```

```
WHERE projNo = '1019'
```

empFName	empLName	deptName
Mary	Jones	Accounting
Jane	Burns	Accounting
Amanda	Chin	Research

f.

```
SELECT empFName, emplName, projNo, rating
FROM worker, assign
where projNo IN
      (SELECT projNo
      FROM project, worker
      WHERE empFName = 'Jane' AND emplName = 'Burns');
```

empFName	emplName	projNo	rating
Tom	Smith	1001	NULL
Mary	Jones	1001	NULL
Michael	Burns	1001	NULL
Jane	Burns	1001	NULL
Amanda	Chin	1001	NULL
Tom	Smith	1019	5
Mary	Jones	1019	5
Michael	Burns	1019	5
Jane	Burns	1019	5
Amanda	Chin	1019	5
Tom	Smith	1005	NULL
Mary	Jones	1005	NULL
Michael	Burns	1005	NULL
Jane	Burns	1005	NULL
Amanda	Chin	1005	NULL
Tom	Smith	1001	NULL
Mary	Jones	1001	NULL
Michael	Burns	1001	NULL
Jane	Burns	1001	NULL
Amanda	Chin	1001	NULL
Tom	Smith	1001	4
Mary	Jones	1001	4
Michael	Burns	1001	4
Jane	Burns	1001	4
Amanda	Chin	1001	4

g.

```
SELECT projName, project.projNo, worker.emplId, empFName, empLName  
FROM worker, assign, project
```

projName	projNo	emplId	empFName	empLName
Jupiter	1001	101	Tom	Smith
Jupiter	1001	103	Mary	Jones
Jupiter	1001	105	Michael	Burns
Jupiter	1001	110	Jane	Burns
Jupiter	1001	115	Amanda	Chin
Saturn	1005	101	Tom	Smith
Saturn	1005	103	Mary	Jones
Saturn	1005	105	Michael	Burns
Saturn	1005	110	Jane	Burns
Saturn	1005	115	Amanda	Chin
Mercury	1019	101	Tom	Smith
Mercury	1019	103	Mary	Jones
Mercury	1019	105	Michael	Burns
Mercury	1019	110	Jane	Burns
Mercury	1019	115	Amanda	Chin
Neptune	1025	101	Tom	Smith
Neptune	1025	103	Mary	Jones
Neptune	1025	105	Michael	Burns
Neptune	1025	110	Jane	Burns
Neptune	1025	115	Amanda	Chin
Pluto	1030	101	Tom	Smith
Pluto	1030	103	Mary	Jones
Pluto	1030	105	Michael	Burns
Pluto	1030	110	Jane	Burns
Pluto	1030	115	Amanda	Chin

h.

i.

```
INSERT INTO worker VALUES(1999, 'Jack', 'Smith', 'Research', NULL, NULL, NULL)
```

j.

UPDATE assign

SET hours = 10

WHERE empld = 110 AND projNo = 1019

k.

SELECT project.projNo, worker.empld, worker.empFName, worker.empLName

FROM worker, assign, project

WHERE startDate < '2018-05-01'

Order BY projNo ASC

projNo	empld	empFName	empLName
1001	101	Tom	Smith
1001	115	Amanda	Chin
1001	105	Michael	Burns
1001	110	Jane	Burns
1001	103	Mary	Jones
1001	1999	Smith	Jack
1001	101	Tom	Smith
1001	115	Amanda	Chin
1001	105	Michael	Burns
1001	110	Jane	Burns
1001	103	Mary	Jones
1001	1999	Smith	Jack
1001	110	Jane	Burns
1001	101	Tom	Smith
1001	115	Amanda	Chin
1001	105	Michael	Burns
1001	101	Tom	Smith
1001	103	Mary	Jones
1001	1999	Smith	Jack
1001	110	Jane	Burns
1001	115	Amanda	Chin
1001	105	Michael	Burns
1001	101	Tom	Smith
1001	103	Mary	Jones
1001	1999	Smith	Jack

l.

```
SELECT assign.projNo, COUNT(*)
```

```
FROM project, assign
```

```
GROUP BY assign.projNo
```

projNo	COUNT(*)
1001	20
1005	5
1019	15
1030	5

m.

n.

```
SELECT *
```

```
FROM project
```

```
WHERE projName LIKE '%er%'
```

projNo	projName	projMgrId	budget	startDate	expectedDuration
1001	Jupiter	101	300000	2018-02-01	50
1019	Mercury	110	350000	2018-02-15	40

o.

```
SELECT DISTINCT projNo, projName, startDate
```

```
FROM project
```

projNo	projName	startDate
1001	Jupiter	2018-02-01
1005	Saturn	2018-06-01
1019	Mercury	2018-02-15
1025	Neptune	2017-02-01
1030	Pluto	2018-09-15



p.

```
ALTER TABLE project ADD status varchar(10);
```

q.

```
INSERT INTO Project VALUES (2044, 'Castle', 105, 400000, '2020-11-03', 20, 'active')
```

r.

s.

```
SELECT empId, empFName, empLName, salary/12 AS 'mSalary'
```

```
FROM worker
```

empId	empFName	empLName	mSalary
101	Tom	Smith	4166.6667
103	Mary	Jones	4000.0000
105	Michael	Burns	5833.3333
110	Jane	Burns	3250.0000
115	Amanda	Chin	5000.0000
1999	Smith	Jack	NULL

t.

```
ALTER TABLE project ADD numEmployeeAssigned int(3)
```

```
UPDATE project
```

```
SET numEmployeeAssigned =
```

```
(SELECT COUNT(*)
```

```
FROM assign
```

```
WHERE assign.projNo = project.projNo)
```



## **REFERENCES:**

- [1] Ali and N. Newman, "Update a column with a COUNT of other fields is SQL?," *Stack Overflow*, 01-Aug-1960. [Online]. Available: <https://stackoverflow.com/questions/6135226/update-a-column-with-a-count-of-other-fields-is-sql>. [Accessed: 03-Nov-2020].

