

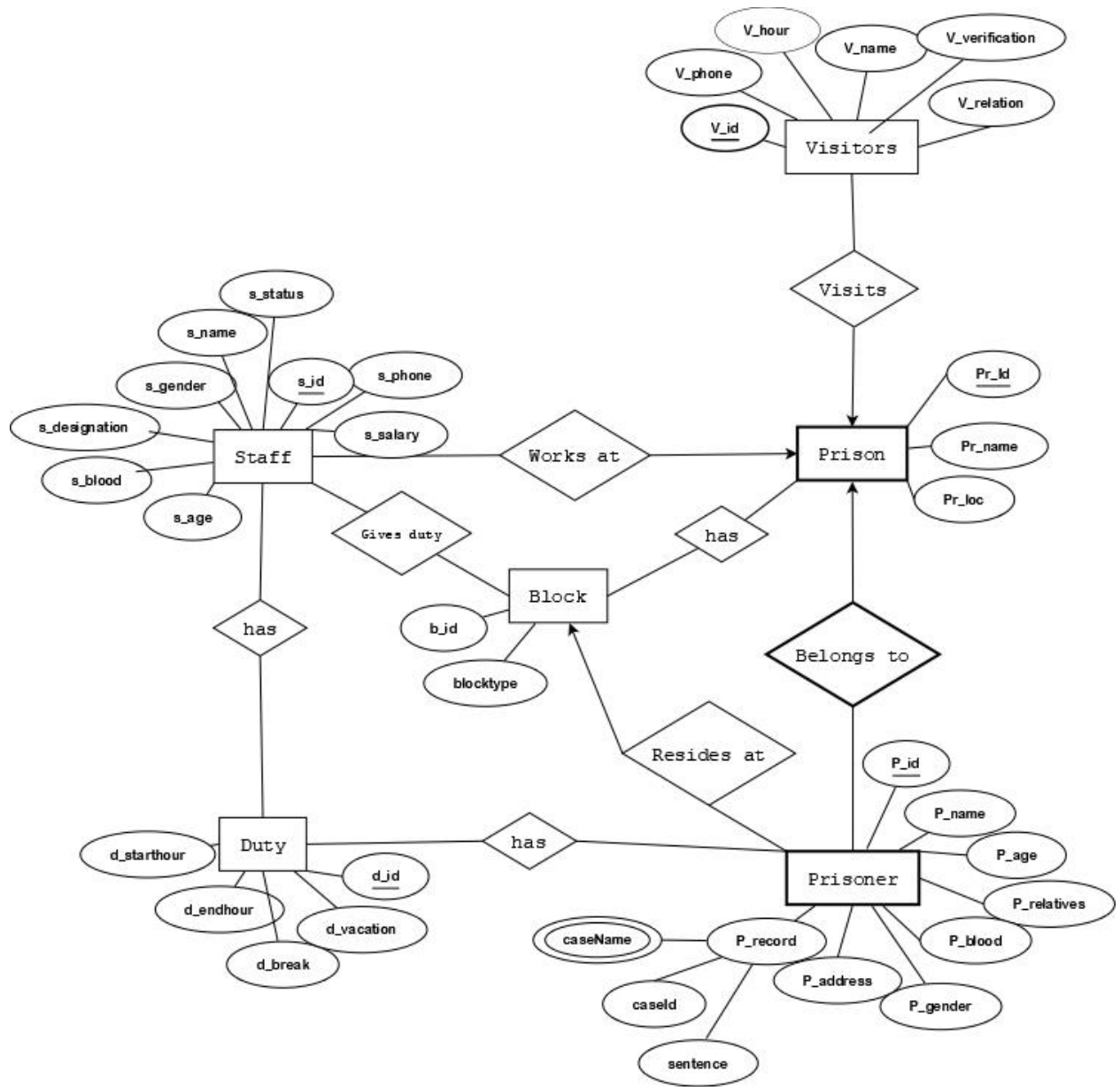
Prison Management System

Group no:04

Name	ID
1.Parvin,Monowara	19-39578-1
2,Tahiat,Maisha	19-39581-1
3.Raisha,Tasnuba Kader	19-39616-1
4.Rahman,MD,Asifur	19-39618-1
5.Seaim,Tanzimul Haque	19-41676-3

Scenario

In our prison management system, many prisoners belong to one prison. A prisoner is identified by his or her prisoner id(P_id). The system is also store name, age, blood group, address, gender, relatives and record. A prisoner record(P_record) is also stores case ID, case name and sentence. Case name is multivalued attribute. The prison is identified by id(Pr_id), name(Pr_name) and location (Pr_loc). Many prisons have many blocks. Inside the prison many prisoners reside in one block. Block has type(blocktype) and unique property of block id(b_id). A prison also has many staffs working in it. The staff is also identified by its(s_id). The system also stores like age, gender, blood, designation, phone, salary, status. Many staff gives duty in many blocks. The staff and prisoner both have duties inside the prison. Many staff and many prisoners have many duties. The duty holds information like id(d_id), start hour, end hour, break and vacation. Many visitors may visit one prison. The visitors have an id(V_id) and the system stores information such as name, verification, hours of visit, phone number and relationship with the prisoner.



NORMALIZATION

Staff works prison(Many to one)

UnnormalizedForm(UNF):

S_id, s_age, s_status, s_blood, s_gender, s_designation,
s_phone, s_name, s_salary, pr_id ,
Pr_loc, Pr_name.

1NF(1st Normalized Form):

There is no multivalued attribute. Relation already in
1NF.

S_id ,pr_id,s_age, s_status, s_blood, s_gender,
s_designation, s_phone,s_name,s_salary,pr_loc,pr_name

2NF(2nd Normalized Form):

1st:s_id,s_age, s_status,s_blood,s_gender, s_designation,
s_phone,s_name,s_salary.

2nd:pr_id,pr_loc,pr_name.

3NF(3rd Normalized Form):

There is no transitive dependency. Relation already in 3NF.

1st: s_id, s_age, s_status, s_blood, s_gender, s_designation, s_phone, s_name, s_salary, **pr_id**.

2nd: pr_id, pr_loc, pr_name.

Visitors visit Prison(Many to one)

UnnormalizedForm(UNF):

V_id, v_relation, v_verification, v_hour, v_phone, v_name, pr_id, pr_loc, pr_name.

1NF(1st Normalized Form):

There is no multivalued attribute. Relation already in 1NF.

V_id, pr_id, v_relation, v_verification, v_hour, v_phone, v_name, pr_loc, pr_name.

2NF(2nd Normalized Form):

1st:v_id,v_relation,v_verification,v_hour,v_phone,v_name.

2nd:pr_id, pr_loc,pr_name.

3NF(3rd Normalized Form):

There is no transitive dependency. Relation already in 3NF.

1st:v_id,v_relation,v_verification,v_hour,v_phone,v_name,**pr_id**.

2nd:pr_id,pr_loc,pr_name.

Prison has Block(Many to Many)

UnnormalizedForm(UNF):

B_id,blocktype,pr_id,pr_loc,pr_name.

1NF(1st Normalized Form):

There is no multivalued attribute. Relation already in 1NF.

B_id,pr_id,blocktype,pr_loc,pr_name.

2NF(2nd Normalized Form):

1st: b_id, blocktype

2nd: pr_id, pr_loc, pr_name.

3NF(3rd Normalized Form):

There is no transitive dependency. Relation already in 3NF.

1st: b_id, blocktype.

2nd: pr_id, pr_loc, pr_name

3rd: b_id, pr_id

Prisoner belongs to Prison(Many to One)

Unnormalized From(UNF): p_id ,

p_name, p_relatives, p_blood, p_gender, p_address, casename, sentence, pr_id, pr_loc, pr_name.

1NF(1st Normalized Form):

Casename is multivalued attribute.

P_id, casename, pr_id, p_name, p_age, p_blood, p_gender, p_relatives, p_address, caseld, sentence, pr_loc, pr_name.

2NF(2nd Normalized Form):

1st: p_id, p_name, p_age, p_gender, p_blood, p_relatives, p_address.

2nd: A_id, casename, caseld, sentence.

3rd: pr_id, pr_loc, pr_name.

3NF(3rd Normalized Form):

1st: p_id, p_name, p_age, p_gender, p_blood, p_relatives, P_address, **pr_id**, **A_id**.

2nd: A_id, casename, caseld, Sentence.

3rd: pr_id, pr_loc, pr_name.

Staff has Duty(Many to Many)

UnnormalizedFrom(UNF):

S_id, s_age, s_status, s_blood, s_gender, s_designation, s_p
hone, s_name, s_salary, d_id, d_vacation, d_starthour, d_en
dhour, d_break

1NF(1st Normalized Form):

There is no multivalued attribute. Relation already in 1NF.

S_id, d_id, s_age, s_status, s_blood, s_gender, s_phone, s_designation, s_name, s_salary, d_vacation, d_starthour, d_endhour, d_break.

2NF(2nd Normalized Form):

1st: s_id, s_age, s_status, s_blood, s_gender, s_designation, s_phone, s_name, s_salary.

2nd: d_id, d_vacation, d_starthour, d_endhour, d_break

3NF(3rd Normalized Form):

There is no transitive dependency. Relation already in 3NF.

1st: s_id, s_age, s_status, s_blood, s_gender, s_designation, s_phone, s_name, s_salary

2nd: d_id, d_vacation, d_starthour, d_endhour, d_break

3rd: s_id, d_id

Prisoner has Duty(Many to Many)

UnnormalizedFrom(UNF):

D_id,d_vacation,d_starthour,d_endhour,d_break,p_id,
P_name,p_age,p_relatives,p_blood,p_gender,p_address,
caseld,casename,sentence.

1NF(1st Normalized Form):

Casename is multivalued attribute.

D_id,casename,p_id,d_vacation,d_starthour,d_endhour,
d_break,p_name,p_age,p_relatives,p_blood,p_gender,
p_address,caseld,sentence.

2NF(2nd Normalized Form):

1st:p_id,p_name,p_age,p_relatives,p_blood,p_gender,
p_address.

2nd:A_id,casename,caseld,sentence.

3rd:d_id,d_vacation,d_starthour,d_endhour,d_break.

3NF(3rd Normalized Form):

1st: p_id, p_name, p_age, p_relatives, p_blood, p_gender, p_address, **A_id**.

2nd: A_id, casename, caseId, sentence.

3rd: d_id, d_vacation, d_starthour, d_endhour, d_break.

4th: p_id, d_id.

Staff gives duty in Blocks(Many to Many)

UnnormalizedForm(UNF):

S_id, s_age, s_status, s_blood, s_gender, s_phone, s_designation, s_name, s_salary, b_id, blocktype

1NF(1st Normalized Form):

There is no multivalued attribute. Relation already in 1NF.

S_id, b_id, s_age, s_status, s_blood, s_gender, s_phone, s_name, s_designation, s_salary, blocktype

2NF(2nd Normalized Form):

1st:s_id,s_age,s_status,s_blood,s_gender,s_phone,
s_name,s_designation,s_salary

2nd:b_id,blocktype

3NF(3rd Normalized Form):

There is no transitive dependency. Relation already in
3NF.

1st:s_id,s_age,s_status,s_blood,s_gender,s_phone,
s_name,s_designation,s_salary

2nd:b_id,blocktype

3rd:s_id,b_id

Prisoner resides at Block(Many to One)

UnnormalizedForm(UNF):

P_id,p_name,p_age,p_relatives,p_blood,p_gender,
p_address,caseld,casename,sentence,b_id,blocktype.

1NF(1st Normalized Form):

Casename is a multivalued attribute.

P_id,casename,b_id,p_name,p_age,p_relatives,p_blood,
p_gender,p_address,caseld,sentence,blocktype.

2NF(2nd Normalized Form):

1st:p_id,p_name,p_age,p_relatives,p_gender,P_blood,p_
address.

2nd:A_id,casename,caseld,sentence.

3rd:b_id,blocktype.

3NF(3rd Normalized Form):

1st:p_id,p_name,p_age,p_relatives,p_blood,p_gender,p_
address,**A_id ,b_id**.

2nd:A_id,casename,caseld,sentence.

3rd:b_id,blocktype.

Final Table:

- S_id,s_name,s_age,s_gender,s_blood,s_status,s_phone,s_designation,s_salary,**pr_id**.
- V_id,v_name,v_relation,v_verification,v_hour,v_phone,**pr_id**.
- b_id,blocktype.
- Pr_id,pr_loc,pr_name.
- d_id,d_vacation,d_starthour,d_endhour,d_break.
- **S_id,d_id**.
- **S_id,b_id**.
- **b_id,pr_id**.
- P_id,p_name,p_age,p_gender,p_blood,p_address,p_relatives,**pr_id,A_id,b_id**.
- A_id,caseName,caseId,sentence
- **p_id,d_id**.

Table Creation:

```
CREATE TABLE Prison(pr_id number(10) constraint pk2 primary  
key,pr_name varchar2(20),pr_loc varchar2(20));
```

```
describe Prison;
```

Results Explain Describe Saved SQL History

Object Type **TABLE** Object **PRISON**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>PRISON</u>	<u>PR_ID</u>	Number	-	10	0	1	-	-	-
	<u>PR_NAME</u>	Varchar2	20	-	-	-	✓	-	-
	<u>PR_LOC</u>	Varchar2	20	-	-	-	✓	-	-
									1 - 3

Language: en-gb

```
CREATE TABLE Staff(s_id number(10) constraint pk1 primary
key,s_name varchar2(20),s_age number(10),s_gender
varchar2(20),s_blood varchar2(20),s_status
varchar2(20),s_phone number(20),s_designation
varchar2(20),s_salary number(20),pr_id number(10) );
```

```
describe Staff;
```

Results Explain Describe Saved SQL History

Object Type TABLE Object STAFF

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
STAFF	S_ID	Number	-	10	0	1	-	-	-
	S_NAME	Varchar2	20	-	-	-	✓	-	-
	S_AGE	Number	-	10	0	-	✓	-	-
	S_GENDER	Varchar2	20	-	-	-	✓	-	-
	S_BLOOD	Varchar2	20	-	-	-	✓	-	-
	S_STATUS	Varchar2	20	-	-	-	✓	-	-
	S_PHONE	Number	-	20	0	-	✓	-	-
	S_DESIGNATION	Varchar2	20	-	-	-	✓	-	-
	S_SALARY	Number	-	20	0	-	✓	-	-
	PR_ID	Number	-	10	0	-	✓	-	-
									1 - 10

Language: en-gb




```
CREATE TABLE Visitor(v_id number(10) constraint pk3 primary
key,v_name varchar2(20),v_relation varchar2(20),v_verification
number(20),v_hour varchar2(20),v_phone number(20),pr_id
number(10) );
```

```
describe Visitor;
```

Results Explain Describe Saved SQL History

Object Type TABLE Object VISITOR

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
VISITOR	V_ID	Number	-	10	0	1	-	-	-
	V_NAME	Varchar2	20	-	-	-	✓	-	-
	V_RELATION	Varchar2	20	-	-	-	✓	-	-
	V_VERIFICATION	Number	-	20	0	-	✓	-	-
	V_HOUR	Varchar2	20	-	-	-	✓	-	-
	V_PHONE	Number	-	20	0	-	✓	-	-
	PR_ID	Number	-	10	0	-	✓	-	-
									1 - 7

Language: en-gb



```
CREATE TABLE Block(b_id number(10) constraint pk4 primary  
key,blocktype varchar2(20));
```

```
describe Block;
```

Results Explain Describe Saved SQL History

Object Type **TABLE** Object **BLOCK**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>BLOCK</u>	<u>B_ID</u>	Number	-	10	0	1	-	-	-
	<u>BLOCKTYPE</u>	Varchar2	20	-	-	-	✓	-	-
1 - 2									

Language: en-gb



```
CREATE TABLE Duty(d_id number(10) constraint pk5 primary  
key,d_vacation varchar2(20),d_starthour  
varchar2(20),d_endhour varchar2(20),d_break varchar2(20));
```

```
describe Duty;
```

Results Explain Describe Saved SQL History

Object Type **TABLE** Object **DUTY**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>DUTY</u>	<u>D_ID</u>	Number	-	10	0	1	-	-	-
	<u>D_VACATION</u>	Varchar2	20	-	-	-	✓	-	-
	<u>D_STARTHOUR</u>	Varchar2	20	-	-	-	✓	-	-
	<u>D_ENDHOUR</u>	Varchar2	20	-	-	-	✓	-	-
	<u>D_BREAK</u>	Varchar2	20	-	-	-	✓	-	-
									1 - 5

Language: en-gb



```
CREATE TABLE Prisoner(p_id number(10) constraint pk6 primary
key,p_name varchar2(20),p_age number(10),p_gender
varchar2(20),p_blood varchar2(20),p_relatives varchar2(20),p_address
varchar2(20),pr_id number(10),b_id number(10),A_id number(10));
```

```
describe Prisoner;
```

Results Explain Describe Saved SQL History

Object Type **TABLE** Object **PRISONER**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PRISONER	P_ID	Number	-	10	0	1	-	-	-
	P_NAME	Varchar2	20	-	-	-	✓	-	-
	P_AGE	Number	-	10	0	-	✓	-	-
	P_GENDER	Varchar2	20	-	-	-	✓	-	-
	P_BLOOD	Varchar2	20	-	-	-	✓	-	-
	P_RELATIVES	Varchar2	20	-	-	-	✓	-	-
	P_ADDRESS	Varchar2	20	-	-	-	✓	-	-
	PR_ID	Number	-	10	0	-	✓	-	-
	B_ID	Number	-	10	0	-	✓	-	-
	A_ID	Number	-	10	0	-	✓	-	-
									1 - 10

Language: en-gb



```
CREATE TABLE P_record(A_id number(10) constraint pk7 primary  
key,caseName varchar2(20),caseId number(10),sentence varchar2(20));
```

```
describe P_record;
```

Results Explain Describe Saved SQL History

Object Type TABLE Object P_RECORD

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>P_RECORD</u>	<u>A_ID</u>	Number	-	10	0	1	-	-	-
	<u>CASENAME</u>	Varchar2	20	-	-	-	✓	-	-
	<u>CASEID</u>	Number	-	10	0	-	✓	-	-
	<u>SENTENCE</u>	Varchar2	20	-	-	-	✓	-	-
									1 - 4

Language: en-gb



```
CREATE TABLE ForeignKey8(  
  b_id number(10),pr_id number(10));
```

```
describe ForeignKey8;
```

Results Explain Describe Saved SQL History

Object Type **TABLE** Object **FOREIGNKEY8**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
FOREIGNKEY8	<u>B_ID</u>	Number	-	10	0	-	✓	-	-
	<u>PR_ID</u>	Number	-	10	0	-	✓	-	-
1 - 2									

Language: en-gb



```
CREATE TABLE ForeignKey9(  
s_id number(10),b_id number(10));
```

```
describe ForeignKey9;
```

Results Explain Describe Saved SQL History

Object Type **TABLE** Object **FOREIGNKEY9**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
FOREIGNKEY9	S_ID	Number	-	10	0	-	✓	-	-
	B_ID	Number	-	10	0	-	✓	-	-
									1 - 2

Language: en-gb



```
CREATE TABLE ForeignKey10(  
  d_id number(10),p_id number(10));
```

```
Alter Table ForeignKey11 add constraint fk14 foreign key(d_id) references Duty(d_id);  
describe ForeignKey10;
```

Results Explain Describe Saved SQL History

Object Type **TABLE** Object **FOREIGNKEY10**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
FOREIGNKEY10	D_ID	Number	-	10	0	-	✓	-	-
	P_ID	Number	-	10	0	-	✓	-	-
									1 - 2

Language: en-gb




```
CREATE TABLE ForeignKey11(  
s_id number(10),d_id number(10));
```

```
describe ForeignKey11;
```

Results Explain Describe Saved SQL History

Object Type **TABLE** Object **FOREIGNKEY11**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
FOREIGNKEY11	<u>S_ID</u>	Number	-	10	0	-	✓	-	-
	<u>D_ID</u>	Number	-	10	0	-	✓	-	-
1 - 2									

Language: en-gb



CONSTRAINT

Alter Table Prisoner add constraint fk1 foreign key(A_id) references
P_record(A_id);

Alter Table Staff add constraint fk2 foreign key(pr_id) references
Prison(pr_id);

Alter Table Visitor add constraint fk3 foreign key(pr_id)
references prison(pr_id);

Alter Table Prisoner add constraint fk4 foreign key(pr_id)
References prison(pr_id);

Alter Table Prisoner add constraint fk5 foreign key(b_id)
References Block(b_id);

Alter Table Prisoner add constraint fk6 foreign key(A_id)
References P_record(A_id);

Alter Table ForeignKey8 add constraint fk7 foreign key(b_id) references
Block(b_id);

Alter Table ForeignKey8 add constraint fk8 foreign key(pr_id)
references Prison(pr_id);

Alter Table ForeignKey9 add constraint fk9 foreign key(s_id) references
Staff(s_id);

Alter Table ForeignKey9 add constraint fk10 foreign key(b_id)
references Block(b_id);

Alter Table ForeignKey10 add constraint fk11 foreign key(d_id)
references Duty(d_id);

Alter Table ForeignKey10 add constraint fk12 foreign key(p_id)
references Prisoner(p_id);

Alter Table ForeignKey11 add constraint fk13 foreign key(s_id)
references Staff(s_id);

Alter Table ForeignKey11 add constraint fk14 foreign key(d_id)
references Duty(d_id);

DATA INSERTION

Prison Table:

INSERT INTO Prison values(101,'Bullock Prison','Bullock');

INSERT INTO Prison values(102,'Elmore Prison','Elmore');

INSERT INTO Prison values(103,'Limestone Prison','Madison');



```
select*  
from prison;
```

Results Explain Describe Saved SQL

PR_ID	PR_NAME	PR_LOC
101	Bullock Prison	Bullock
102	Elmore Prison	Elmore
103	Limestone Prison	Madison

3 rows returned in 0.06 seconds [CSV](#)

Language: en-gb

  Type here to search

Staff Table:

```
INSERT INTO Staff  
values(1101,'Zakaria',35,'Male','O+','ACTIVE',1714445555,'Deputy  
Warden',3000,101);
```

```
INSERT INTO Staff  
values(1102,'Joshua',24,'Female','A+','ACTIVE',2223331111,'Probation  
Officer',2500,102);
```

```
INSERT INTO Staff values(1103,'Jon  
Rogers',25,'Male','B+','ACTIVE',4455552233,'Prison Guard',1500,103);
```

```
select*  
from staff;
```

Results Explain Describe Saved SQL History

S_ID	S_NAME	S_AGE	S_GENDER	S_BLOOD	S_STATUS	S_PHONE	S_DESIGNATION	S_SALARY	PR_ID
1101	Zakaria	35	Male	O+	ACTIVE	1714445555	Deputy Warden	3000	101
1102	Joshua	24	Female	A+	ACTIVE	2223331111	Probation Officer	2500	102
1103	Jon Rogers	25	Male	B+	ACTIVE	4455552233	Prison Guard	1500	103

3 rows returned in 0.00 seconds [CSV Export](#)

Language: en-gb



Visitor Table:

```
INSERT INTO Visitor values(1010,'Jack Quaid','Husband',3412,'10:00AM-10:20AM',356741256,101);
```

```
INSERT INTO Visitor values(1011,'Shantel VanSanten','Brother',3413,'10:00AM-10:20AM',2459631258,102);
```

```
INSERT INTO Visitor values(1012,'Timothec Chalamet','Sister',3414,'12:00AM-12:20AM',79654823,103);
```

```
select*  
from visitor;
```

Results Explain Describe Saved SQL History

V_ID	V_NAME	V_RELATION	V_VERIFICATION	V_HOUR	V_PHONE	PR_ID
1010	Jack Quaid	Husband	3412	10:00AM-10:20AM	356741256	101
1011	Shantel VanSanten	Brother	3413	10:00AM-10:20AM	2459631258	102
1012	Timothec Chalamet	Sister	3414	12:00AM-12:20AM	79654823	103

3 rows returned in 0.00 seconds

[CSV Export](#)

Language: en-gb



Block Table:

INSERT INTO Block values(1001,'Block-A(Male)');

INSERT INTO Block values(1002,'Block-B(Female)');

INSERT INTO Block values(1003,'Block-C(Male)');

INSERT INTO Block values(1004,'Block-D(Female)');

```
select*  
from block;
```

```
SELECT S_id, S_name, S_gender,  
FROM Staff  
WHERE S_salary > (SELECT S_sal  
FROM Staff  
WHERE S_name = 'Jon Rogers');
```

Results Explain Describe Saved S

B_ID	BLOCKTYPE
1001	Block-A(Male)
1002	Block-B(Female)
1003	Block-C(Male)
1004	Block-D(Female)

4 rows returned in 0.00 seconds

Language: en-gb



Type here to search

Duty Table:

```
INSERT INTO Duty values(201,'In Vacation','8-AM','6-PM','1PM to 1:30PM');
```

```
INSERT INTO Duty values(202,'0 Days Available','8-AM','6-PM','1PM to 1:30PM');
```

```
INSERT INTO Duty values(203,'7 Days Available','8-AM','6-PM','1PM to 1:30PM');
```

```
select*  
from duty;
```

Results Explain Describe Saved SQL History

D_ID	D_VACATION	D_STARTHOUR	D_ENDHOUR	D_BREAK
201	In Vacation	8-AM	6-PM	1PM to 1:30PM
202	0 Days Available	8-AM	6-PM	1PM to 1:30PM
203	7 Days Available	8-AM	6-PM	1PM to 1:30PM

3 rows returned in 0.00 seconds

[CSV Export](#)

Language: en-gb



Type here to search



Prisoner Table:

INSERT INTO Prisoner

VALUES(1,'Jim Jones',27,'Male','O+','Bella
Thorne','Borger,Texas',101,1001,111);

INSERT INTO Prisoner

VALUES(2,'Albert L.Bates',30,
'Male','A+','Emily Alyn Lind','Granada ,California',102,1002,112);

INSERT INTO Prisoner

VALUES(3,'Charlotte Corday',26,'Female','O-','Shantel
VanSanten','Tishomingo,Oklahoma',103,1003,113);

```
select*  
from prisoner;
```

```
INSERT INTO Prisoner  
VALUES(1,'Jim Jones',27,'Male','O+','Bella  
Thorne','Borger,Texas',101,1001,111);
```

Results Explain Describe Saved SQL History

P_ID	P_NAME	P_AGE	P_GENDER	P_BLOOD	P_RELATIVES	P_ADDRESS	PR_ID	B_ID	A_ID
1	Jim Jones	27	Male	O+	Bella Thorne	Borger,Texas	101	1001	111
2	Albert L.Bates	30	Male	A+	Emily Alyn Lind	Granada ,California	102	1002	112
3	Charlotte Corday	26	Female	O-	Shantel VanSanten	Tishomingo,Oklahoma	103	1003	113

3 rows returned in 0.00 seconds

[CSV Export](#)

Language: en-gb



P_record Table:

INSERT INTO P_record

```
VALUES(111,'Robbery',12001,'3 years');
```

INSERT INTO P_record

```
VALUES(112,'Rape',12002,'9 years');
```

INSERT INTO P_record

```
VALUES(113,'Homicide',12003,'Life sentence');
```

```
select*  
from p record;
```

```
INSERT INTO Prisoner
```

VAL	HFC	A	17°	3	1	07	14	3	1	10	1	10	33
-----	-----	---	-----	---	---	----	----	---	---	----	---	----	----

Results Explain Describe Saved SQL History

A_ID	CASENAME	CASEID	SENTENCE
111	Robbery	12001	3 years
112	Rape	12002	9 years
113	Homicide	12003	Life sentence

3 rows returned in 0.00 seconds

[CSV Export](#)

Language: en-gb



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Foreign Key8 Table:

INSERT INTO Foreignkey8 values(1001,101);

INSERT INTO Foreignkey8 values(1002,102);

INSERT INTO Foreignkey8 values(1003,103);

```
select*  
from foreignkey8;
```

```
INSERT INTO Prisoner  
VALUES(1, 'Jim Jones  
Thorne', 'Borger, Tex.
```

```
INSERT INTO Prisoner  
VALUES(2, 'Albert L.
```

Results Explain Desc

B_ID	PR_ID
1001	101
1002	102
1003	103

3 rows returned in 0.00 s

Language: en-gb



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Foreign Key9 Table:

INSERT INTO Foreignkey9 values(1101,1001);

INSERT INTO Foreignkey9 values(1102,1002);

INSERT INTO Foreignkey9 values(1103,1003);

```
select*  
from foreignkey9;
```

```
INSERT INTO Prisoner  
VALUES(1, 'Jim Jones',27, 'Male', 'O+', 'Bella  
Thorne', 'Borger, Texas', 101, 1001, 111);
```

Results Explain Describe Saved SQL History

S_ID	B_ID
1101	1001
1102	1002
1103	1003

3 rows returned in 0.00 seconds

[CSV Export](#)

Language: en-gb



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Foreign Key10 Table:

INSERT INTO Foreignkey10 values(201,1);

INSERT INTO Foreignkey10 values(202,2);




INSERT INTO Foreignkey10 values(203,3);

Results	Explain	Describe	Saved SQL	History
---------	---------	----------	-----------	---------

D_ID	P_ID
201	1
202	2
203	3

3 rows returned in 0.00 seconds [CSV Export](#)

Language: en-gb

Foreign Key11 Table:

INSERT INTO Foreignkey11 values(1101,201);

INSERT INTO Foreignkey11 values(1102,202);

INSERT INTO Foreignkey11 values(1103,203);

```
select*  
from foreignkey11;
```

```
INSERT INTO Prisoner  
VALUES(1,'Jim Jones',27,'Male','O+','Bella  
Thorne','Borger,Texas',101,1001,111);
```

Results Explain Describe Saved SQL History

S_ID	D_ID
1101	201
1102	202
1103	203

3 rows returned in 0.00 seconds

[CSV Export](#)

Language: en-gb



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Query Writing

Subquery:

Question-1: Display Staff's id, name, gender, salary and designation of those who have salary higher than 'Jon Rogers'.

Answer: SELECT S_id, S_name, S_gender, S_salary, S_designation

FROM Staff

WHERE S_salary > (SELECT S_salary

FROM Staff

WHERE S_name = 'Jon Rogers');

```
SELECT S_id, S_name, S_gender, S_salary, S_designation FROM Staff
WHERE S_salary > (SELECT S_salary FROM Staff WHERE S_name = 'Jon Rogers');
```

Results Explain Describe Saved SQL History

S_ID	S_NAME	S_GENDER	S_SALARY	S_DESIGNATION
1101	Zakaria	Male	3000	Deputy Warden
1102	Joshua	Female	2500	Probation Officer

2 rows returned in 0.00 seconds

[CSV Export](#)

Question-2: Display the name, id ,salary,gender and age of the staff whose salary is less than the salary of the staff who's age is less than 25.

Answer: SELECT S_id, S_name, S_gender, S_salary,s_age

FROM Staff

WHERE S_salary = (SELECT S_salary FROM Staff WHERE S_age < 25);

```
SELECT S_id, S_name, S_gender, S_salary,s_age  
FROM Staff  
WHERE S_salary = (SELECT S_salary FROM Staff WHERE S_age < 25);
```

Results Explain Describe Saved SQL History

S_ID	S_NAME	S_GENDER	S_SALARY	S_AGE
1102	Joshua	Female	2500	24

1 rows returned in 0.00 seconds

[CSV Export](#)

Language: en-gb



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Question-3: Display the prisoner's name,id,gender who have "A+" blood group.

Answer:

```
select p_name,p_id,p_gender
from prisoner
where p_blood=(select p_blood
from prisoner where p_blood='A+');
```

```
select p_name,p_id,p_gender
from prisoner
where p_blood=(select p_blood
from prisoner
where p_blood='A+');
```

Results Explain Describe Saved SQL History

P_NAME	P_ID	P_GENDER
Albert L.Bates	2	Male

1 rows returned in 0.00 seconds

[CSV Export](#)

Language: en-gb

Question-4: Display the visitor name and id who's verification is less than 3413.

Answer:

```
select v_name,v_id
from visitor
where v_verification=(select v_verification
from visitor
where v_verification < 3413);
```

```
select v_name,v_id
from visitor
where v_verification=(select v_verification
from visitor
where v_verification < 3413);
```

Results Explain Describe Saved SQL History

V_NAME	V_ID
Jack Quaid	1010

1 rows returned in 0.00 seconds

[CSV Export](#)

Language: en-gb



Joining:

(Equi-join)

Question-1: Display prisoner's id,name,gender caseName and sentence of the prisoners.

Answer: select p_id,p_name,p_gender,caseName,sentence
from prisoner,p_record
where prisoner.A_id=p_record.A_id;

```
select p_id,p_name,p_gender,caseName,sentence  
from prisoner,p_record  
where prisoner.A_id=p_record.A_id;
```

Results Explain Describe Saved SQL History

P_ID	P_NAME	P_GENDER	CASENAME	SENTENCE
1	Jim Jones	Male	Robbery	3 years
2	Albert L.Bates	Male	Rape	9 years
3	Charlotte Corday	Female	Homicide	Life sentence

3 rows returned in 0.07 seconds

[CSV Export](#)

Language: en-gb



Question-2: Display prisoner's id,name,gender and blocktype of all the prisoners.

Answer: select p_id,p_name,p_gender,blocktype
from prisoner,Block
where prisoner.b_id=Block.b_id;

```
select p_id,p_name,p_gender,blocktype  
from prisoner,Block  
where prisoner.b_id=Block.b_id;
```

Results Explain Describe Saved SQL History

P_ID	P_NAME	P_GENDER	BLOCKTYPE
1	Jim Jones	Male	Block-A(Male)
2	Albert L.Bates	Male	Block-B(Female)
3	Charlotte Corday	Female	Block-C(Male)

3 rows returned in 0.00 seconds

[CSV Export](#)

Language: en-gb



(Outer join)

Question-3: Get all the matching and non-matching records from the tables.

Answer: select p_id,p_name,p_gender,blocktype

from prisoner,Block

where prisoner.b_id(+)=Block.b_id;

```
select p_id,p_name,p_gender,blocktype
from prisoner,Block
where prisoner.b_id(+)=Block.b_id;
```

```
Insert into Block values(1004,'Block-D(Female)');
```

Results Explain Describe Saved SQL History

P_ID	P_NAME	P_GENDER	BLOCKTYPE
1	Jim Jones	Male	Block-A(Male)
2	Albert L.Bates	Male	Block-B(Female)
3	Charlotte Corday	Female	Block-C(Male)
-	-	-	Block-D(Female)

4 rows returned in 0.00 seconds

[CSV Export](#)

Language: en-gb



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VIEW:

Question-1: Create one view called StaffPhone based on the S_name and S_phone from the Staff table.

Answer: Create view StaffPhone as select S_name,S_phone
from staff;

```
Create view StaffPhone as select S name,S phone  
from staff;
```

Results Explain Describe Saved SQL History

ORA-01031: insufficient privileges

0.00 seconds

Language: en-gb



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