



Project Report, Fall 2021-22

| | | | |
|--------|------------------------------|-------|-----------|
| Course | Introduction to Database [H] | Group | NOT GIVEN |
|--------|------------------------------|-------|-----------|

Group Members:

| Student ID | Name | Contribution |
|------------|-------------------------|---------------------------------------|
| 21-44681-1 | SABITUL IQRAM | Introduction and Scenario description |
| 21-44664-1 | CHOWDHURY, SAFWAN UDDIN | ER Diagram, normalization |
| 21-44634-1 | SHIKDAR, JAHIDUL ISLAM | Table creation Data insertion, |
| 21-44577-1 | UPOL,MD.DAUD HOSSAIN | Queries and conclusion |

Title:

| |
|--------------------------|
| PRISON MANAGEMENT SYSTEM |
|--------------------------|

SUBMITTED TO

Dr. S.M. HASAN Mahmud

LECTURER

AMERICAN INTERNATIONAL UNIVERSITY BANGLADESH

TABLE OF CONTENTS

| Topics | page |
|--|-------------|
| 1. Title page and group info | 01 |
| 2. Table of content | 02 |
| 3. Introduction and Scenario description | 03 |
| 4. ER Diagram | 04 |
| 5. Normalization | 05 |
| 6. Table creation | 06-12 |
| 7. Data insertion | 13-21 |
| 8. Queries | 22-34 |
| 9. Conclusion | 35 |

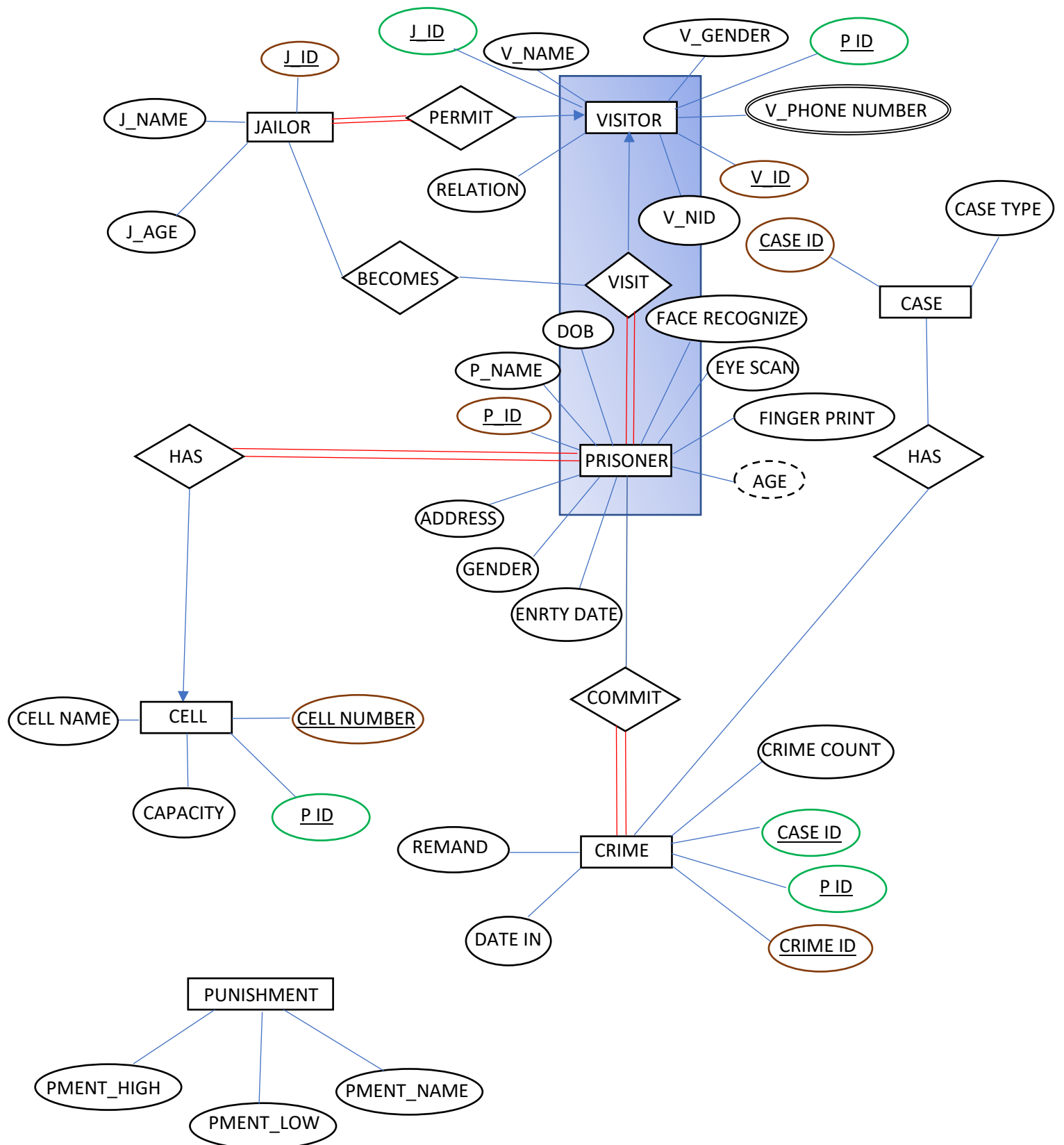
INTRODUCTION:

The project is about prison management system. This system is made to keep record of all the information of a prison. Online database project is much better than paper records. Paper record can be lost and take too much time to search for a particular information and has no backup. User can access prisoner, visitor, and jailor's information very easily with the help of the prison management system.

SCENARIO DESCRIPTION:

In a prison management system, a jailor can permit many visitors. A visitor can be permitted by a jailor. A jailor is identified by jailor id (J_ID), Jailor age (J_AGE) and jailor name (J_NAME) where jailor id (J_ID) is "Primary key". A jailor becomes visitors and visit prisoner. System stores visitor's name (V_NAME), visitor's gender (V_GENDER), visitor's id (V_ID) here (V_ID) is a "Primary key", visitor's number (V_PHONE NUMBER), visitor's NID number (V_NID), relation with prisoner (RELATION), prisoner ID (P_ID) here (P_ID) is a "Foreign key" and jailor ID (J_ID) here jailor ID (J_ID) is a "Foreign key". A visitor may visit many prisoners. A prisoner can be visited by many visitors. A prisoner is identified by the prisoner's name (P_NAME), prisoner id (P_ID) here (P_ID) is a "Primary key", prisoner's gender (GENDER), prisoner's address (ADDRESS), prisoner's entry date (ENTRY DATE), prisoner's face reorganization (FACE RECOGNIZE), prisoner's date of birth (DOB), prisoner's age (AGE), prisoner's eye scan (EYE SCAN), and prisoner's fingerprint (FINGER PRINT). A prisoner has exactly one cell. A cell may have many prisoners. Cell is identified by cell name (CELL NAME), cell number (CELL NUMBER), cell capacity (CAPACITY) and prisoner's Id (P_ID) here prisoner's Id (P_ID) is a "Foreign key". A prisoner may commit many crimes. A crime can be committed by many prisoners. Crime is identified by crime count (CRIME COUNT), remand (REMAND), date in (DATE IN), crime id (CRIME ID) here crime id (CRIME ID) is a "Primary key", crime case Id (CASE ID) here crime case Id (CASE ID) is a "Foreign key" and prisoner's Id (P_ID) here prisoner's Id (P_ID) is a "Foreign key". Crime has case and cases are identified by case id (CASE ID) here case Id (CASE ID) is a "Primary key" and case type (CASE TYPE). And there is punishment for every prisoner. A prisoner can be punished. Punishment is identified with high punishment (PMENT_HIGH), low punishment (PMENT_LOW) and punishment name (PMENT_NAME).

ER DIAGRAM :



NORMALIZATION:

- **JAILOR:** This entity has no transitive dependency and functional dependency. So, it is already in 3NF
- **VISITOR:** VISITOR table has phone number which is multivalued attribute. This can be separated in two by phone number 1 and phone number 2 and make this attribute independent. Other attributes of this table are already independent. So, it is also in 3NF.
- **PRISONER:** This table has no transitive or functional dependencies and therefore it is already in 3NF.
- **CRIME:** All the attribute of this table can be identified uniquely with the primary key.
- **CASE:** Already in 3NF.
- **CELL:** No functional and transitive dependency.
- **PUNISHMENT:** Already in 3NF.

TABLE CREATION:

CREATE TABLE JAILOR

(

J_ID NUMBER(15) CONSTRAINT PK_JID PRIMARY KEY,

J_NAME VARCHAR2(30),

J_AGE NUMBER(3)

);

DESC JAILOR;

The screenshot shows the Oracle Database Express Edition web interface. At the top, it says "ORACLE Database Express Edition" with navigation links for Home, Logout, and Help. Below this, the user is identified as "SYSTEM". The main area is titled "SQL Commands" and contains the following SQL code:

```
CREATE TABLE JAILOR
(
  J_ID NUMBER(15) CONSTRAINT PK_JID PRIMARY KEY,
  J_NAME VARCHAR2(30),
  J_AGE NUMBER(3)
);

DESC JAILOR;
```

Below the SQL editor, there are tabs for "Results", "Explain", "Describe", "Saved SQL", and "History". The "Describe" tab is selected, showing the table structure for "JAILOR".

| Table | Column | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
|--------|--------|-----------|--------|-----------|-------|-------------|----------|---------|---------|
| JAILOR | J_ID | Number | - | 15 | 0 | 1 | - | - | - |
| | J_NAME | Varchar2 | 30 | - | - | - | ✓ | - | - |
| | J_AGE | Number | - | 3 | 0 | - | ✓ | - | - |

At the bottom of the interface, there is a footer with the text "Language: en-au" and "Copyright © 1999, 2006, Oracle. All rights reserved.".

CREATE TABLE CASE

(

CASE_ID NUMBER(5) CONSTRAINT PK_CASEID PRIMARY KEY,

CASE_TYPE VARCHAR2(30)

);

DESC CASE;

ORACLE Database Express Edition

User SYSTEM

Home > SQL > SQL Commands

☒ Autocommit Display 30 Save Run

```
CREATE TABLE CASE
(
CASE_ID NUMBER(5) CONSTRAINT PK_CASEID PRIMARY KEY,
CASE_TYPE VARCHAR2(30)
);
DESC CASE;
```

Results Explain Describe Saved SQL History

| Object Type | TABLE | Object | CASE | | | | | | |
|-------------|-----------|-----------|--------|-----------|-------|-------------|----------|---------|---------|
| Table | Column | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
| CASE | CASE_ID | Number | - | 5 | 0 | 1 | - | - | - |
| | CASE_TYPE | Varchar2 | 30 | - | - | - | ✓ | - | - |
| 1 - 2 | | | | | | | | | |

Language: en-au

Activate Application Express 2.1.0.00.39
Copyright © 1999, 2006, Oracle. All rights reserved.

CREATE TABLE PRISONER

(
P_ID NUMBER(15) CONSTRAINT PK_PID PRIMARY KEY,
P_NAME VARCHAR2(30),
DOB DATE,
P_AGE NUMBER(3),
FINGER_PRINT VARCHAR2(5),
FACE_RECOGNIZE VARCHAR2(5),
EYE_SCAN VARCHAR2(5),
ADDRESS VARCHAR2(5),
GENDER VARCHAR2(10),
ENTRY_DATE DATE,
);

```
ALTER TABLE PRISONER MODIFY
```

```
(
```

```
ADDRESS VARCHAR2(100)
```

```
);
```

```
DESC 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 | - | 15 | 0 | 1 | - | - | - |
| | P_NAME | Varchar2 | 30 | - | - | - | ✓ | - | - |
| | DOB | Date | 7 | - | - | - | ✓ | - | - |
| | P_AGE | Number | - | 3 | 0 | - | ✓ | - | - |
| | FINGER_PRINT | Varchar2 | 5 | - | - | - | ✓ | - | - |
| | FACE_RECOGNIZE | Varchar2 | 5 | - | - | - | ✓ | - | - |
| | EYE_SCAN | Varchar2 | 5 | - | - | - | ✓ | - | - |
| | ADDRESS | Varchar2 | 100 | - | - | - | ✓ | - | - |
| | GENDER | Varchar2 | 10 | - | - | - | ✓ | - | - |
| | ENTRY_DATE | Date | 7 | - | - | - | ✓ | - | - |

1 - 10

```
CREATE TABLE CELL
```

```
(
```

```
CELL_NUMBER NUMBER(15) CONSTRAINT PK_CELLNUMBER PRIMARY KEY,
```

```
CELL_NAME VARCHAR2(30),
```

```
CAPACITY NUMBER(3),
```

```
P_ID NUMBER(15) CONSTRAINT FK_PID REFERENCES PRISONER
```

```
);
```

```
DESC CELL;
```


ORACLE Database Express Edition

User: SYSTEM

Home > SQL > SQL Commands

☒ Autocommit Display: 30

Save Run

```

CREATE TABLE CELL
(
  CELL_NUMBER NUMBER(15) CONSTRAINT PK_CELLNUMBER PRIMARY KEY,
  CELL_NAME VARCHAR2(30),
  CAPACITY NUMBER(3),
  P_ID NUMBER(15) CONSTRAINT FK_PID REFERENCES PRISONER
);

DESC CELL;

```

Results Explain Describe Saved SQL History

Object Type: TABLE Object: CELL

| Table | Column | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
|-------|-------------|-----------|--------|-----------|-------|-------------|----------|---------|---------|
| CELL | CELL_NUMBER | Number | - | 15 | 0 | 1 | - | - | - |
| | CELL_NAME | Varchar2 | 30 | - | - | - | ✓ | - | - |
| | CAPACITY | Number | - | 3 | 0 | - | ✓ | - | - |
| | P_ID | Number | - | 15 | 0 | - | ✓ | - | - |

1 - 4

Language: en-au

Copyright © 1999, 2006, Oracle. All rights reserved.

CREATE TABLE VISITOR

```

(
  V_ID NUMBER(15) CONSTRAINT PK_VID PRIMARY KEY,
  V_NAME VARCHAR2(30),
  RELATION VARCHAR2(30),
  V_GENDER VARCHAR2(10),
  V_PHONE_NUMBER NUMBER(15),
  V_NID NUMBER(20),
  P_ID NUMBER(15) CONSTRAINT FK_VPID REFERENCES PRISONER,
  J_ID NUMBER(15) CONSTRAINT FK_VJID REFERENCES JAILOR
);

DESC VISITOR;

```

Home > SQL > SQL Commands

☒ Autocommit Display 30 Save Run

```
CREATE TABLE VISITOR
(
  V_ID NUMBER(15) CONSTRAINT PK_VID PRIMARY KEY,
  V_NAME VARCHAR2(30),
  RELATION VARCHAR2(30),
  V_GENDER VARCHAR2(10),
  V_PHONE_NUMBER NUMBER(15),
  V_NID NUMBER(20),
  P_ID NUMBER(15) CONSTRAINT FK_VPID REFERENCES PRISONER,
  J_ID NUMBER(15) CONSTRAINT FK_VJID REFERENCES PRISONER
);
DESC 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 | - | 15 | 0 | 1 | - | - | - |
| | V_NAME | Varchar2 | 30 | - | - | - | ✓ | - | - |
| | RELATION | Varchar2 | 30 | - | - | - | ✓ | - | - |
| | V_GENDER | Varchar2 | 10 | - | - | - | ✓ | - | - |
| | V_PHONE_NUMBER | Number | - | 15 | 0 | - | ✓ | - | - |
| | V_NID | Number | - | 20 | 0 | - | ✓ | - | - |
| | P_ID | Number | - | 15 | 0 | - | ✓ | - | - |
| | J_ID | Number | - | 15 | 0 | - | ✓ | - | - |
| 1 - 8 | | | | | | | | | |

Language: en-au

Activate Windows
Go to Settings to activate Windows.
Application Express 2.1.0.00.39
Copyright © 1999, 2006, Oracle. All rights reserved.

CREATE TABLE CRIME

(

CRIME_ID NUMBER(15) CONSTRAINT PK_CRIMEID PRIMARY KEY,

DATE_IN DATE,

REMAND VARCHAR2(5),

CRIME_COUNT NUMBER(5),

CASE_ID NUMBER(5) CONSTRAINT FK_CCASEID REFERENCES CASE,

P_ID NUMBER(15) CONSTRAINT FK_CPID REFERENCES PRISONER

);

DESC CRIME;

User: SYSTEM

HomeLogoutHelp

Home > SQL > SQL Commands

☒ Autocommit Display 30

SaveRun

```
CREATE TABLE CRIME
(
  CRIME_ID NUMBER(15) CONSTRAINT PK_CRIMEID PRIMARY KEY,
  DATE_IN DATE,
  REMAND VARCHAR2(5),
  CRIME_COUNT NUMBER(5),
  CASE_ID NUMBER(5) CONSTRAINT FK_CCASEID REFERENCES PRISONER,
  P_ID NUMBER(15) CONSTRAINT FK_CPID REFERENCES PRISONER
);

DESC CRIME;
```

ResultsExplainDescribeSaved SQLHistory

Object TypeTABLEObjectCRIME

| Table | Column | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
|-------|-------------|-----------|--------|-----------|-------|-------------|----------|---------|---------|
| CRIME | CRIME_ID | Number | - | 15 | 0 | 1 | - | - | - |
| | DATE_IN | Date | 7 | - | - | - | ✓ | - | - |
| | REMAND | Varchar2 | 5 | - | - | - | ✓ | - | - |
| | CRIME_COUNT | Number | - | 5 | 0 | - | ✓ | - | - |
| | CASE_ID | Number | - | 5 | 0 | - | ✓ | - | - |
| | P_ID | Number | - | 15 | 0 | - | ✓ | - | - |
| 1 - 6 | | | | | | | | | |

Application Express 2.1.0.00.39
Copyright © 1999, 2006, Oracle. All rights reserved.

Language: en-au

CREATE TABLE PUNISHMENT

(
PMENT_NAME VARCHAR2(30),
PMENT_LOW NUMBER(5),
PMENT_HIGH NUMBER(5)
);

DESC PUNISHMENT;

User: SYSTEM

Home > SQL > SQL Commands

☒ Autocommit Display 30

Save

Run

```
CREATE TABLE PUNISHMENT
(
  PMENT_NAME VARCHAR2(30),
  PMENT_LOW  NUMBER(5),
  PMENT_HIGH NUMBER(5)
);

DESC PUNISHMENT;
```

Results Explain Describe Saved SQL History

Object Type **TABLE** Object **PUNISHMENT**

| Table | Column | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
|------------|------------|-----------|--------|-----------|-------|-------------|----------|---------|---------|
| PUNISHMENT | PMENT_NAME | Varchar2 | 30 | - | - | - | ✓ | - | - |
| | PMENT_LOW | Number | - | 5 | 0 | - | ✓ | - | - |
| | PMENT_HIGH | Number | - | 5 | 0 | - | ✓ | - | - |
| 1 - 3 | | | | | | | | | |

DATA INSERTION:

INSERT INTO JAILOR VALUES(101,'SAFWAN CHOWDURY',30);

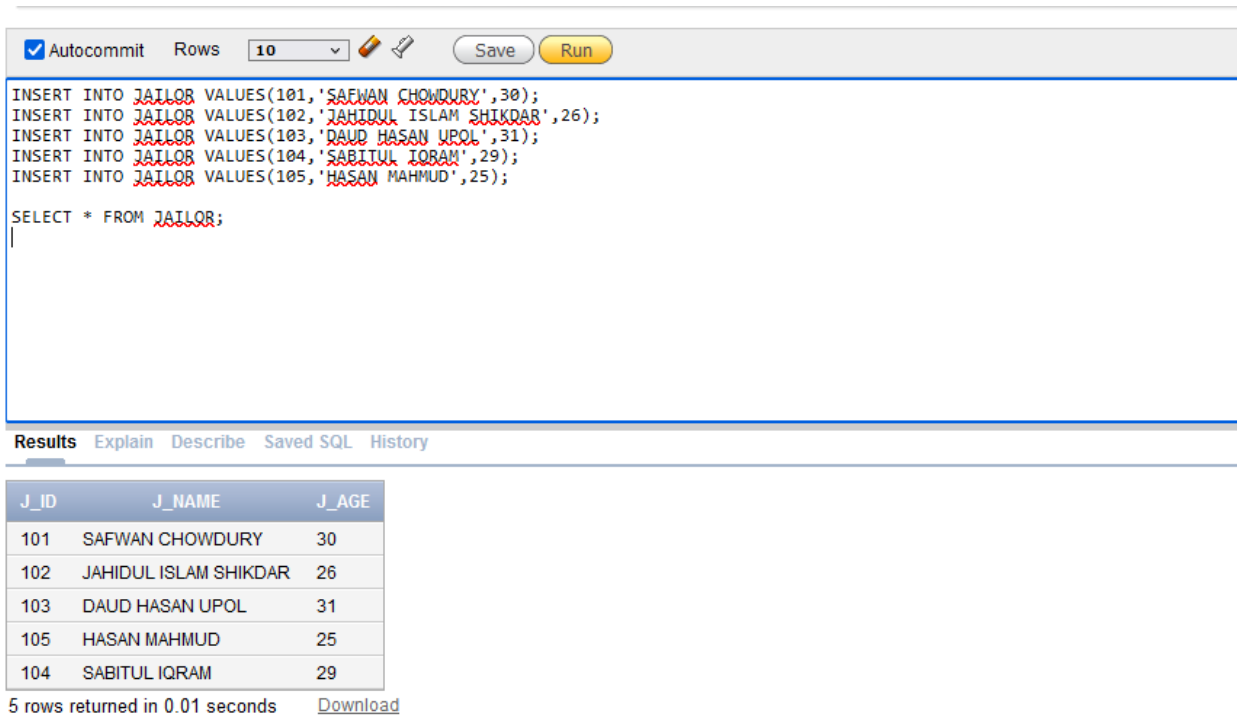
INSERT INTO JAILOR VALUES(102,'JAHIDUL ISLAM SHIKDAR',26);

INSERT INTO JAILOR VALUES(103,'DAUD HASAN UPOL',31);

INSERT INTO JAILOR VALUES(104,'SABITUL IQRAM',29);

INSERT INTO JAILOR VALUES(105,'HASAN MAHMUD',25);

SELECT * FROM JAILOR;



The screenshot shows a SQL IDE interface with a toolbar at the top containing 'Autocommit', 'Rows' (set to 10), 'Save', and 'Run' buttons. The SQL editor contains the following code:

```
INSERT INTO JAILOR VALUES(101,'SAFWAN CHOWDURY',30);
INSERT INTO JAILOR VALUES(102,'JAHIDUL ISLAM SHIKDAR',26);
INSERT INTO JAILOR VALUES(103,'DAUD HASAN UPOL',31);
INSERT INTO JAILOR VALUES(104,'SABITUL IQRAM',29);
INSERT INTO JAILOR VALUES(105,'HASAN MAHMUD',25);

SELECT * FROM JAILOR;
```

Below the editor, the 'Results' tab is active, displaying a table with the following data:

| J_ID | J_NAME | J_AGE |
|------|-----------------------|-------|
| 101 | SAFWAN CHOWDURY | 30 |
| 102 | JAHIDUL ISLAM SHIKDAR | 26 |
| 103 | DAUD HASAN UPOL | 31 |
| 105 | HASAN MAHMUD | 25 |
| 104 | SABITUL IQRAM | 29 |

At the bottom, it states '5 rows returned in 0.01 seconds' with a 'Download' link.

INSERT INTO CASE VALUES(201,'MURDER');

INSERT INTO CASE VALUES(202,'RAPE');

INSERT INTO CASE VALUES(203,'KIDNAPPING');

INSERT INTO CASE VALUES(204,'ARMED ROBBERY');

INSERT INTO CASE VALUES(205,'INSIDER TRADING');

INSERT INTO CASE VALUES(206,'FRAUD');

INSERT INTO CASE VALUES(207,'EXTORTION');

INSERT INTO CASE VALUES(208,'HARASSMENT');

INSERT INTO CASE VALUES(209,'CYBER BULLYING');

INSERT INTO CASE VALUES(210,'THEFT');

SELECT * FROM CASE;

Home > SQL > SQL Commands

☒ Autocommit Display 30 Save Run

```
INSERT INTO CASE VALUES(201,'MURDER');
INSERT INTO CASE VALUES(202,'RAPE');
INSERT INTO CASE VALUES(203,'KIDNAPPING');
INSERT INTO CASE VALUES(204,'ARMED ROBBERY');
INSERT INTO CASE VALUES(205,'INSIDER TRADING');
INSERT INTO CASE VALUES(206,'FRAUD');
INSERT INTO CASE VALUES(207,'EXTORTION');
INSERT INTO CASE VALUES(208,'HARASSMENT');
INSERT INTO CASE VALUES(209,'CYBER BULLYING');
INSERT INTO CASE VALUES(210,'THEFT');

SELECT * FROM CASE;
```

Results Explain Describe Saved SQL History

| CASE_ID | CASE_TYPE |
|---------|-----------------|
| 201 | MURDER |
| 202 | RAPE |
| 203 | KIDNAPPING |
| 204 | ARMED ROBBERY |
| 205 | INSIDER TRADING |
| 206 | FRAUD |
| 207 | EXTORTION |
| 208 | HARASSMENT |
| 209 | CYBER BULLYING |
| 210 | THEFT |

10 rows returned in 0.02 seconds [CSV Export](#)

Activate Windows
Go to Settings to activate Windows.
Application Express 2.1.0.00.39
Copyright © 1999, 2006, Oracle. All rights reserved.

Language: en-au

INSERT INTO PRISONER VALUES(1001,'NAHID HASSAN',TO_DATE('01 Jan 1999', 'DD MON YYYY'),22,'YES','YES','YES','ROAD 2,JOYPARA,DOHAR,DHAKA,BANGLADESH','MALE',TO_DATE('01 Jan 1999', 'DD MON YYYY'));

UPDATE PRISONER SET ENTRY_DATE = TO_DATE('19 Jan 2018', 'DD MON YYYY') WHERE P_ID =1001;

INSERT INTO PRISONER VALUES(1002,'ARMAN ARIF',TO_DATE('26 Jan 1999', 'DD MON YYYY'),22,'YES','YES','YES','ROAD 3,KHILGAON,DHAKA,BANGLADESH','MALE',TO_DATE('26 Jan 2017', 'DD MON YYYY'));

```
INSERT INTO PRISONER VALUES(1003,'ALI AHMED',TO_DATE( '26 Jan 1998', 'DD MON  
YYYY'),23,'YES','YES','YES','ROAD 9,RAMPURA,DHAKA,BANGLADESH','MALE',TO_DATE( '27 OCT 2013',  
'DD MON YYYY'));
```

```
INSERT INTO PRISONER VALUES(1004,'SAKIB NABI',TO_DATE( '26 JUL 1997', 'DD MON  
YYYY'),24,'YES','YES','YES','ROAD 7,MOHAMMADPUR,DHAKA,BANGLADESH','MALE',TO_DATE( '27 DEC  
2015', 'DD MON YYYY'));
```

```
INSERT INTO PRISONER VALUES(1005,'SAMIO CHEMIYO',TO_DATE( '07 MAY 1998', 'DD MON  
YYYY'),23,'YES','YES','YES','ROAD 1,SHAJADPUR,DHAKA,BANGLADESH','MALE',TO_DATE( '28 OCT 2016',  
'DD MON YYYY'));
```

```
INSERT INTO PRISONER VALUES(1006,'USMAN GHANI',TO_DATE( '07 MAY 1995', 'DD MON  
YYYY'),26,'YES','YES','YES','ROAD 3,BADDA,DHAKA,BANGLADESH','MALE',TO_DATE( '1 JAN 2012', 'DD  
MON YYYY'));
```

```
INSERT INTO PRISONER VALUES(1007,'HAFSA ISLAM',TO_DATE( '07 MAR 1998', 'DD MON  
YYYY'),23,'YES','YES','YES','ROAD 3,BOSHUNDARA,DHAKA,BANGLADESH','FEMALE',TO_DATE( '1 JAN  
2019', 'DD MON YYYY'));
```

```
INSERT INTO PRISONER VALUES(1008,'SUMAIYA RAHMAN',TO_DATE( '27 SEP 1996', 'DD MON  
YYYY'),25,'YES','YES','YES','ROAD 9,MOHAKHALI,DHAKA,BANGLADESH','FEMALE',TO_DATE( '1 FEB 2020',  
'DD MON YYYY'));
```

```
INSERT INTO PRISONER VALUES(1009,'NAIMA DEY',TO_DATE( '15 AUG 2000', 'DD MON  
YYYY'),21,'YES','YES','YES','ROAD 9,SAVAR,DHAKA,BANGLADESH','FEMALE',TO_DATE( '1 MAR 2018', 'DD  
MON YYYY'));
```

```
INSERT INTO PRISONER VALUES(1010,'MISHA SHOUDAGAR',TO_DATE( '23 SEP 1999', 'DD MON  
YYYY'),22,'YES','YES','YES','ROAD 9,BANANI,DHAKA,BANGLADESH','MALE',TO_DATE( '11 DEC 2014', 'DD  
MON YYYY'));
```

```
INSERT INTO PRISONER VALUES(1011,'EMPEROR NIRJHOR',TO_DATE( '27 OCT 1998', 'DD MON  
YYYY'),23,'YES','YES','YES','ROAD 9,KHILGAON,DHAKA,BANGLADESH','MALE',TO_DATE( '23 SEP 2017', 'DD  
MON YYYY'));
```

```
INSERT INTO PRISONER VALUES(1012,'EMPEROR JAHANGIR',TO_DATE( '5 MAY 1993', 'DD MON
YYYY'),28,'YES','YES','YES','ROAD 2,GULSAN,DHAKA,BANGLADESH','MALE',TO_DATE( '5 SEP 2019', 'DD
MON YYYY'));
```

```
INSERT INTO PRISONER VALUES(1013,'RAWNAK MAHIN',TO_DATE( '14 NOV 2000', 'DD MON
YYYY'),21,'YES','YES','YES','ROAD 15,MIRPUR,DHAKA,BANGLADESH','MALE',TO_DATE( '01 NOV 2010', 'DD
MON YYYY'));
```

```
INSERT INTO PRISONER VALUES(1014,'ARIFUL HAQUE',TO_DATE( '28 NOV 1994', 'DD MON
YYYY'),27,'YES','YES','YES','ROAD 19,MUNCHEPPARA,BRAHMANBARIA','MALE',TO_DATE( '27 FEB 2007',
'DD MON YYYY'));
```

```
INSERT INTO PRISONER VALUES(1015,'LABIBA SHAMIM',TO_DATE( '2 APR 1995', 'DD MON
YYYY'),26,'YES','YES','YES','ROAD 4,TUNGIPARA,GOPALGONG','FEMALE',TO_DATE( '29 JAN 2003', 'DD
MON YYYY'));
```

```
SELECT * FROM PRISONER;
```

| Results Explain Describe Saved SQL History | | | | | | | | | | |
|--|------------------|-----------|-------|--------------|----------------|----------|---------------------------------------|--------|------------|--|
| P_ID | P_NAME | DOB | P_AGE | FINGER_PRINT | FACE_RECOGNIZE | EYE_SCAN | ADDRESS | GENDER | ENTRY_DATE | |
| 1001 | NAHID HASSAN | 01/JAN/99 | 22 | YES | YES | YES | ROAD 2,JOYPARA,DOHAR,DHAKA,BANGLADESH | MALE | 19/JAN/18 | |
| 1002 | ARMAN ARIF | 26/JAN/99 | 22 | YES | YES | YES | ROAD 3,KHILGAON,DHAKA,BANGLADESH | MALE | 26/JAN/17 | |
| 1003 | ALI AHMED | 26/JAN/98 | 23 | YES | YES | YES | ROAD 9,RAMPURA,DHAKA,BANGLADESH | MALE | 27/OCT/13 | |
| 1004 | SAKIB NABI | 26/JUL/97 | 24 | YES | YES | YES | ROAD 7,MOHAMMADPUR,DHAKA,BANGLADESH | MALE | 27/DEC/15 | |
| 1005 | SAMIO CHEMIYO | 07/MAY/98 | 23 | YES | YES | YES | ROAD 1,SHAJADPUR,DHAKA,BANGLADESH | MALE | 28/OCT/16 | |
| 1006 | USMAN GHANI | 07/MAY/95 | 26 | YES | YES | YES | ROAD 3,BADDA,DHAKA,BANGLADESH | MALE | 01/JAN/12 | |
| 1007 | HAFSA ISLAM | 07/MAR/98 | 23 | YES | YES | YES | ROAD 3,BOSHUNDARA,DHAKA,BANGLADESH | FEMALE | 01/JAN/19 | |
| 1008 | SUMAIYA RAHMAN | 27/SEP/96 | 25 | YES | YES | YES | ROAD 9,MOHAKHALI,DHAKA,BANGLADESH | FEMALE | 01/FEB/20 | |
| 1009 | NAIMA DEY | 15/AUG/00 | 21 | YES | YES | YES | ROAD 9,SAVAR,DHAKA,BANGLADESH | FEMALE | 01/MAR/18 | |
| 1010 | MISHA SHOUDAGAR | 23/SEP/99 | 22 | YES | YES | YES | ROAD 9,BANANI,DHAKA,BANGLADESH | MALE | 11/DEC/14 | |
| 1011 | EMPEROR NIRJHOR | 27/OCT/98 | 23 | YES | YES | YES | ROAD 9,KHILGAON,DHAKA,BANGLADESH | MALE | 23/SEP/17 | |
| 1012 | EMPEROR JAHANGIR | 05/MAY/93 | 28 | YES | YES | YES | ROAD 2,GULSAN,DHAKA,BANGLADESH | MALE | 05/SEP/19 | |
| 1013 | RAWNAK MAHIN | 14/NOV/00 | 21 | YES | YES | YES | ROAD 15,MIRPUR,DHAKA,BANGLADESH | MALE | 01/NOV/10 | |
| 1014 | ARIFUL HAQUE | 28/NOV/94 | 27 | YES | YES | YES | ROAD 19,MUNCHEPPARA,BRAHMANBARIA | MALE | 27/FEB/07 | |
| 1015 | LABIBA SHAMIM | 02/APR/95 | 26 | YES | YES | YES | ROAD 4,TUNGIPARA,GOPALGONG | FEMALE | 29/JAN/03 | |

15 rows returned in 0.00 seconds CSV Export

```
INSERT INTO VISITOR VALUES(9001,'GOPAL
VAR','GRANDFATHER','MALE',01747474747,1919191919,1009,105);
```

```
INSERT INTO VISITOR VALUES(9002,'DORAEMON','FRIEND','MALE',01757575757,2929292929,1015,104);
```



```

INSERT INTO VISITOR
VALUES(9003,'SHINCHAN','BROTHER','MALE',01767676767,3939393939,1011,103);

INSERT INTO VISITOR VALUES(9004,'TOM','COUSIN','MALE',01787878787,4949494949,1013,101);

INSERT INTO VISITOR VALUES(9005,'SHIZUKA','MOM','FEMALE',01797979797,5959595959,1005,102);

SELECT * FROM VISITOR;

```

ORACLE Database Express Edition

User: SYSTEM

Home > SQL > SQL Commands

Autocommit Display 30 Save Run

```

'DD MON YYYY'}});

SELECT * FROM PRISONER;

INSERT INTO VISITOR VALUES(9001,'GOPAL VAR','GRANDFATHER','MALE',01747474747,1919191919,1009,105);
INSERT INTO VISITOR VALUES(9002,'DORAEMON','FRIEND','MALE',01757575757,2929292929,1015,104);
INSERT INTO VISITOR VALUES(9003,'SHINCHAN','BROTHER','MALE',01767676767,3939393939,1011,103);
INSERT INTO VISITOR VALUES(9004,'TOM','COUSIN','MALE',01787878787,4949494949,1013,101);
INSERT INTO VISITOR VALUES(9005,'SHIZUKA','MOM','FEMALE',01797979797,5959595959,1005,102);
SELECT * FROM VISITOR;

```

Results Explain Describe Saved SQL History

| V_ID | V_NAME | RELATION | V_GENDER | V_PHONE_NUMBER | V_NID | P_ID | J_ID |
|------|-----------|-------------|----------|----------------|------------|------|------|
| 9001 | GOPAL VAR | GRANDFATHER | MALE | 1747474747 | 1919191919 | 1009 | 105 |
| 9002 | DORAEMON | FRIEND | MALE | 1757575757 | 2929292929 | 1015 | 104 |
| 9003 | SHINCHAN | BROTHER | MALE | 1767676767 | 3939393939 | 1011 | 103 |
| 9004 | TOM | COUSIN | MALE | 1787878787 | 4949494949 | 1013 | 101 |
| 9005 | SHIZUKA | MOM | FEMALE | 1797979797 | 5959595959 | 1005 | 102 |

5 rows returned in 0.00 seconds CSV Export

Language: en-au

Application Express 2.1.0.00.39
Copyright © 1999, 2006, Oracle. All rights reserved.

```

INSERT INTO CRIME VALUES(3001,TO_DATE( '15 JAN 2018', 'DD MON YYYY'),'YES',3,202,1001);

INSERT INTO CRIME VALUES(3002,TO_DATE( '2 JAN 2017', 'DD MON YYYY'),'YES',6,201,1002);

INSERT INTO CRIME VALUES(3003,TO_DATE( '15 OCT 2013', 'DD MON YYYY'),'YES',2,208,1003);

INSERT INTO CRIME VALUES(3004,TO_DATE( '12 DEC 2015', 'DD MON YYYY'),'YES',6,203,1004);

INSERT INTO CRIME VALUES(3005,TO_DATE( '20 OCT 2016', 'DD MON YYYY'),'NO',1,206,1005);

INSERT INTO CRIME VALUES(3006,TO_DATE( '15 DEC 2011', 'DD MON YYYY'),'NO',7,209,1006);

INSERT INTO CRIME VALUES(3007,TO_DATE( '17 DEC 2018', 'DD MON YYYY'),'NO',2,206,1007);

INSERT INTO CRIME VALUES(3008,TO_DATE( '25 JAN 2020', 'DD MON YYYY'),'YES',9,210,1008);

INSERT INTO CRIME VALUES(3009,TO_DATE( '21 FEB 2018', 'DD MON YYYY'),'NO',3,206,1009);

INSERT INTO CRIME VALUES(3010,TO_DATE( '01 DEC 2014', 'DD MON YYYY'),'YES',7,207,1010);

```

```

INSERT INTO CRIME VALUES(3011,TO_DATE( '14 SEP 2017', 'DD MON YYYY'),'NO',2,205,1011);
INSERT INTO CRIME VALUES(3012,TO_DATE( '01 SEP 2019', 'DD MON YYYY'),'YES',7,204,1012);
INSERT INTO CRIME VALUES(3013,TO_DATE( '19 OCT 2010', 'DD MON YYYY'),'NO',4,210,1013);
INSERT INTO CRIME VALUES(3014,TO_DATE( '12 FEB 2007', 'DD MON YYYY'),'YES',5,203,1014);
INSERT INTO CRIME VALUES(3015,TO_DATE( '20 JAN 2003', 'DD MON YYYY'),'NO',7,210,1015);

```

```

SELECT * FROM CRIME;

```

Results Explain Describe Saved SQL History

| CRIME_ID | DATE_IN | REMAND | CRIME_COUNT | CASE_ID | P_ID |
|----------|-----------|--------|-------------|---------|------|
| 3001 | 15/JAN/18 | YES | 3 | 202 | 1001 |
| 3002 | 02/JAN/17 | YES | 6 | 201 | 1002 |
| 3003 | 15/OCT/13 | YES | 2 | 208 | 1003 |
| 3004 | 12/DEC/15 | YES | 6 | 203 | 1004 |
| 3005 | 20/OCT/16 | NO | 1 | 206 | 1005 |
| 3006 | 15/DEC/11 | NO | 7 | 209 | 1006 |
| 3007 | 17/DEC/18 | NO | 2 | 206 | 1007 |
| 3008 | 25/JAN/20 | YES | 9 | 210 | 1008 |
| 3009 | 21/FEB/18 | NO | 3 | 206 | 1009 |
| 3010 | 01/DEC/14 | YES | 7 | 207 | 1010 |
| 3011 | 14/SEP/17 | NO | 2 | 205 | 1011 |
| 3012 | 01/SEP/19 | YES | 7 | 204 | 1012 |
| 3013 | 19/OCT/10 | NO | 4 | 210 | 1013 |
| 3014 | 12/FEB/07 | YES | 5 | 203 | 1014 |
| 3015 | 20/JAN/03 | NO | 7 | 210 | 1015 |

15 rows returned in 0.00 seconds

[CSV Export](#)

Language: en-au

```
INSERT INTO CELL VALUES(301,'GG',1,1001);
INSERT INTO CELL VALUES(302,'WP',1,1002);
INSERT INTO CELL VALUES(303,'EZ',1,1003);
INSERT INTO CELL VALUES(304,'ASCP',1,1004);
INSERT INTO CELL VALUES(305,'GM',1,1005);
INSERT INTO CELL VALUES(306,'GGWP',1,1006);
INSERT INTO CELL VALUES(307,'GGEZ',1,1007);
INSERT INTO CELL VALUES(308,'REYNA',1,1008);
INSERT INTO CELL VALUES(309,'SOVA',1,1009);
INSERT INTO CELL VALUES(310,'BRIM',1,1010);
INSERT INTO CELL VALUES(311,'SAGE',1,1011);
INSERT INTO CELL VALUES(312,'PHOENIX',1,1012);
INSERT INTO CELL VALUES(313,'ASTRA',1,1013);
INSERT INTO CELL VALUES(314,'CHAMBER',1,1014);
INSERT INTO CELL VALUES(315,'SKYE',1,1015);
INSERT INTO CELL VALUES(316,'BREACH',1,NULL);
INSERT INTO CELL VALUES(317,'RAZE',1,NULL);
INSERT INTO CELL VALUES(318,'OMEN',1,NULL);
INSERT INTO CELL VALUES(319,'YORU',1,NULL);
INSERT INTO CELL VALUES(320,'KJ',1,NULL);
```

```
SELECT * FROM CELL;
```

Results Explain Describe Saved SQL History

| CELL_NUMBER | CELL_NAME | CAPACITY | P_ID |
|-------------|-----------|----------|------|
| 301 | GG | 1 | 1001 |
| 302 | WP | 1 | 1002 |
| 303 | EZ | 1 | 1003 |
| 304 | ASCP | 1 | 1004 |
| 305 | GM | 1 | 1005 |
| 306 | GGWP | 1 | 1006 |
| 307 | GGEZ | 1 | 1007 |
| 308 | REYNA | 1 | 1008 |
| 309 | SOVA | 1 | 1009 |
| 310 | BRIM | 1 | 1010 |
| 311 | SAGE | 1 | 1011 |
| 312 | PHOENIX | 1 | 1012 |
| 313 | ASTRA | 1 | 1013 |
| 314 | CHAMBER | 1 | 1014 |
| 315 | SKYE | 1 | 1015 |
| 316 | BREACH | 1 | - |
| 317 | RAZE | 1 | - |
| 318 | OMEN | 1 | - |
| 319 | YORU | 1 | - |
| 320 | KJ | 1 | - |

20 rows returned in 0.00 seconds

[CSV Export](#)

Application Express 2.1.0.00.39

```
INSERT INTO PUNISHMENT VALUES('2 YEARS IMPRISONMENT',1,2);
```

```
INSERT INTO PUNISHMENT VALUES('7 YEARS IMPRISONMENT',3,4);
```

```
INSERT INTO PUNISHMENT VALUES('LIFETIME IMPRISONMENT',5,7);
```

```
INSERT INTO PUNISHMENT VALUES('HANG TILL DEATH',8,10);
```

```
SELECT * FROM PUNISHMENT;
```

```

INSERT INTO PUNISHMENT VALUES('2 YEARS IMPRISONMENT',1,2);
INSERT INTO PUNISHMENT VALUES('7 YEARS IMPRISONMENT',3,4);
INSERT INTO PUNISHMENT VALUES('LIFETIME IMPRISONMENT',5,7);
INSERT INTO PUNISHMENT VALUES('HANG TILL DEATH',8,10);

```

```

SELECT * FROM PUNISHMENT;

```

Results Explain Describe Saved SQL History

| PMENT_NAME | PMENT_LOW | PMENT_HIGH |
|-----------------------|-----------|------------|
| 2 YEARS IMPRISONMENT | 1 | 2 |
| 7 YEARS IMPRISONMENT | 3 | 4 |
| LIFETIME IMPRISONMENT | 5 | 7 |
| HANG TILL DEATH | 8 | 10 |

4 rows returned in 0.00 seconds

[CSV Export](#)

Application Express 2.1.0.00.39

Language: en-au

Copyright © 1999, 2006, Oracle. All rights reserved.

```

SELECT * FROM PRISONER;

```

Results Explain Describe Saved SQL History

| P_ID | P_NAME | DOB | P_AGE | FINGER_PRINT | FACE_RECOGNIZE | EYE_SCAN | ADDRESS | GENDER | ENTRY_DATE |
|------|------------------|-----------|-------|--------------|----------------|----------|---------------------------------------|--------|------------|
| 1001 | NAHID HASSAN | 01/JAN/99 | 22 | YES | YES | YES | ROAD 2,JOYPARA,DOHAR,DHAKA,BANGLADESH | MALE | 19/JAN/18 |
| 1002 | ARMAN ARIF | 26/JAN/99 | 22 | YES | YES | YES | ROAD 3,KHILGAON,DHAKA,BANGLADESH | MALE | 26/JAN/17 |
| 1003 | ALI AHMED | 26/JAN/98 | 23 | YES | YES | YES | ROAD 9,RAMPURA,DHAKA,BANGLADESH | MALE | 27/OCT/13 |
| 1004 | SAKIB NABI | 26/JUL/97 | 24 | YES | YES | YES | ROAD 7,MOHAMMADPUR,DHAKA,BANGLADESH | MALE | 27/DEC/15 |
| 1005 | SAMIO CHEMIYO | 07/MAY/98 | 23 | YES | YES | YES | ROAD 1,SHAJADPUR,DHAKA,BANGLADESH | MALE | 28/OCT/16 |
| 1006 | USMAN GHANI | 07/MAY/95 | 26 | YES | YES | YES | ROAD 3,BADDA,DHAKA,BANGLADESH | MALE | 01/JAN/12 |
| 1007 | HAFSA ISLAM | 07/MAR/98 | 23 | YES | YES | YES | ROAD 3,BOSHUNDARA,DHAKA,BANGLADESH | FEMALE | 01/JAN/19 |
| 1008 | SUMAIYA RAHMAN | 27/SEP/96 | 25 | YES | YES | YES | ROAD 9,MOHAKHALI,DHAKA,BANGLADESH | FEMALE | 01/FEB/20 |
| 1009 | NAIMA DEY | 15/AUG/00 | 21 | YES | YES | YES | ROAD 9,SAVAR,DHAKA,BANGLADESH | FEMALE | 01/MAR/18 |
| 1010 | MISHA SHOUDAGAR | 23/SEP/99 | 22 | YES | YES | YES | ROAD 9,BANANI,DHAKA,BANGLADESH | MALE | 11/DEC/14 |
| 1011 | EMPEROR NIRJHOR | 27/OCT/98 | 23 | YES | YES | YES | ROAD 9,KHILGAON,DHAKA,BANGLADESH | MALE | 23/SEP/17 |
| 1012 | EMPEROR JAHANGIR | 05/MAY/93 | 28 | YES | YES | YES | ROAD 2,GULSAN,DHAKA,BANGLADESH | MALE | 05/SEP/19 |
| 1013 | RAWNAK MAHIN | 14/NOV/00 | 21 | YES | YES | YES | ROAD 15,MIRPUR,DHAKA,BANGLADESH | MALE | 01/NOV/10 |
| 1014 | ARIFUL HAQUE | 28/NOV/94 | 27 | YES | YES | YES | ROAD 19,MUNCHEPPARA,BRAHMANBARIA | MALE | 27/FEB/07 |
| 1015 | LABIBA SHAMIM | 02/APR/95 | 26 | YES | YES | YES | ROAD 4,TUNGIPARA,GOPALGONG | FEMALE | 29/JAN/03 |
| 1016 | - | - | - | - | - | - | - | - | - |

16 rows returned in 0.00 seconds

[CSV Export](#)

Activate Windows
Go to Settings to activate Windows.
Application Express 2.1

QUERIES:

2 simple queries with simple condition:

QUESTION:

Show all the female prisoners.

SELECT * FROM PRISONER WHERE GENDER = 'FEMALE';

Results

Explain

Describe

Saved SQL

History

| P_ID | P_NAME | DOB | P_AGE | FINGER_PRINT | FACE_RECOGNIZE | EYE_SCAN | ADDRESS | GENDER | ENTRY_DATE |
|------|----------------|-----------|-------|--------------|----------------|----------|------------------------------------|--------|------------|
| 1007 | HAUSA ISLAM | 07/MAR/98 | 23 | YES | YES | YES | ROAD 3,BOSHUNDARA,DHAKA,BANGLADESH | FEMALE | 01/JAN/19 |
| 1008 | SUMAIYA RAHMAN | 27/SEP/96 | 25 | YES | YES | YES | ROAD 9,MOHAKHALI,DHAKA,BANGLADESH | FEMALE | 01/FEB/20 |
| 1009 | NAIMA DEY | 15/AUG/00 | 21 | YES | YES | YES | ROAD 9,SAVAR,DHAKA,BANGLADESH | FEMALE | 01/MAR/18 |
| 1015 | LABIBA SHAMIM | 02/APR/95 | 26 | YES | YES | YES | ROAD 4,TUNGIPARA,GOPALGONG | FEMALE | 29/JAN/03 |

4 rows returned in 0.00 seconds

CSV Export

QUESTION:

Show all the prisoner who are more than 25 years old.

SELECT * FROM PRISONER WHERE P_AGE > 25;

Results

Explain

Describe

Saved SQL

History

| P_ID | P_NAME | DOB | P_AGE | FINGER_PRINT | FACE_RECOGNIZE | EYE_SCAN | ADDRESS | GENDER | ENTRY_DATE |
|------|------------------|-----------|-------|--------------|----------------|----------|----------------------------------|--------|------------|
| 1006 | USMAN GHANI | 07/MAY/95 | 26 | YES | YES | YES | ROAD 3,BADDA,DHAKA,BANGLADESH | MALE | 01/JAN/12 |
| 1012 | EMPEROR JAHANGIR | 05/MAY/93 | 28 | YES | YES | YES | ROAD 2,GULSAN,DHAKA,BANGLADESH | MALE | 05/SEP/19 |
| 1014 | ARIFUL HAQUE | 28/NOV/94 | 27 | YES | YES | YES | ROAD 19,MUNCHEPPARA,BRAHMANBARIA | MALE | 27/FEB/07 |
| 1015 | LABIBA SHAMIM | 02/APR/95 | 26 | YES | YES | YES | ROAD 4,TUNGIPARA,GOPALGONG | FEMALE | 29/JAN/03 |

4 rows returned in 0.00 seconds

[CSV Export](#)

Application Express 2.1.0.00.39

Language: en-au

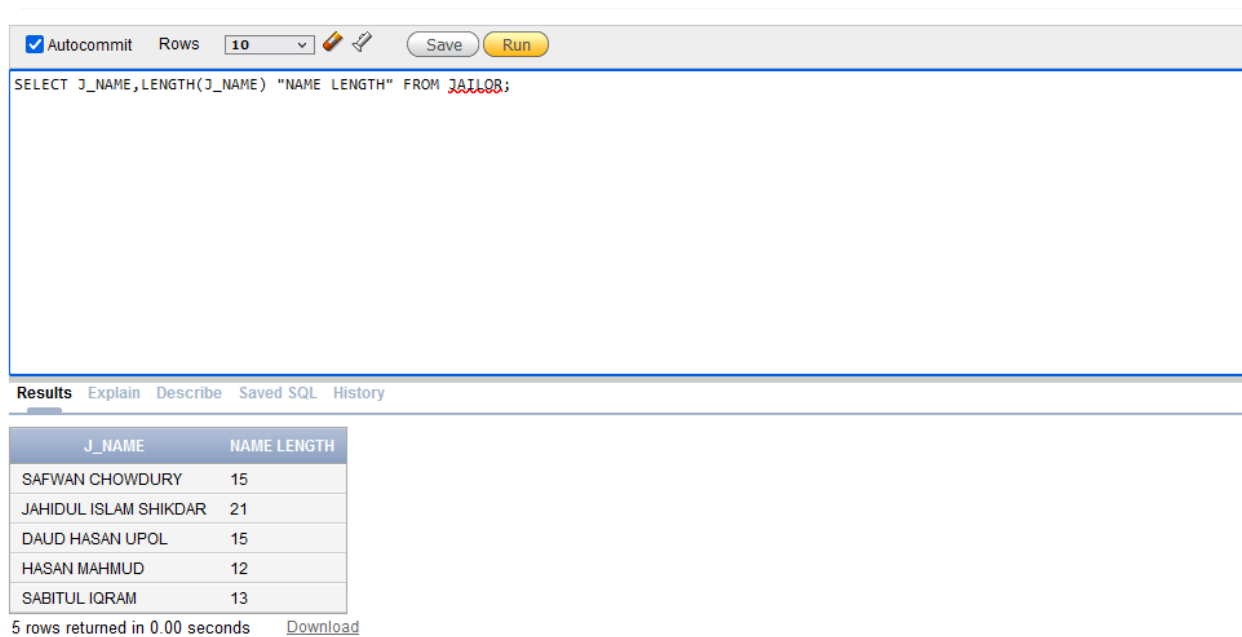
Copyright © 1999, 2005, Oracle. All rights reserved.

1 single row function query:

QUESTION:

FIND EVERY JAILORS NAME LENGTH

SELECT J_NAME,LENGTH(J_NAME) "NAME LENGTH" FROM JAILOR;



The screenshot shows a SQL query execution interface. At the top, there is a toolbar with a checked 'Autocommit' checkbox, a 'Rows' dropdown set to '10', and 'Save' and 'Run' buttons. Below the toolbar, the SQL query is entered in a text area: `SELECT J_NAME,LENGTH(J_NAME) "NAME LENGTH" FROM JAILOR;`. The word 'JAILOR' is highlighted in red. Below the query area, there is a tabbed interface with 'Results' selected. The results are displayed in a table with two columns: 'J_NAME' and 'NAME LENGTH'. The table contains five rows of data. Below the table, it says '5 rows returned in 0.00 seconds' and there is a 'Download' link.

| J_NAME | NAME LENGTH |
|----------------------|-------------|
| SAFWAN CHOWDURY | 15 |
| JAHDUL ISLAM SHIKDAR | 21 |
| DAUD HASAN UPOL | 15 |
| HASAN MAHMUD | 12 |
| SABITUL IQRAM | 13 |

5 rows returned in 0.00 seconds [Download](#)

1 multiple row function query:

QUESTION:

FIND THE MAXIMUM AND MEAN CRIME OF ALL PRISONERS

```
SELECT MAX(CRIME_COUNT),ROUND(AVG(CRIME_COUNT)) FROM CRIME;
```

Results Explain Describe Saved SQL History

| MAX(CRIME_COUNT) | ROUND(AVG(CRIME_COUNT)) |
|------------------|-------------------------|
| 9 | 5 |

1 rows returned in 0.00 seconds

[CSV Export](#)

1 SINGLE ROW SUB QUERY:

QUESTION:

SHOW THE PRISONER INFORMATION WHO'S CELL NUMBER IS 301

```
SELECT * FROM PRISONER WHERE P_ID = (SELECT P_ID FROM CELL WHERE CELL_NUMBER = 301);
```


| Results Explain Describe Saved SQL History | | | | | | | | | |
|--|--------------|-----------|-------|--------------|----------------|----------|---------------------------------------|--------|------------|
| P_ID | P_NAME | DOB | P_AGE | FINGER_PRINT | FACE_RECOGNIZE | EYE_SCAN | ADDRESS | GENDER | ENTRY_DATE |
| 1001 | NAHID HASSAN | 01/JAN/99 | 22 | YES | YES | YES | ROAD 2,JOYPARA,DOHAR,DHAKA,BANGLADESH | MALE | 19/JAN/18 |

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

Language: en-au Activate Copyright © 19

1 MULTI ROW SUB QUERY:

QUESTION:

SHOW ALL THE PRISONERS WHO HAVE DONE 2 CRIMES

SELECT * FROM PRISONER WHERE P_ID IN (SELECT P_ID FROM CRIME WHERE CRIME_COUNT = 2);

| Results Explain Describe Saved SQL History | | | | | | | | | |
|--|-----------------|-----------|-------|--------------|----------------|----------|------------------------------------|--------|------------|
| P_ID | P_NAME | DOB | P_AGE | FINGER_PRINT | FACE_RECOGNIZE | EYE_SCAN | ADDRESS | GENDER | ENTRY_DATE |
| 1003 | ALI AHMED | 26/JAN/98 | 23 | YES | YES | YES | ROAD 9,RAMPURA,DHAKA,BANGLADESH | MALE | 27/OCT/13 |
| 1007 | HAFA SA ISLAM | 07/MAR/98 | 23 | YES | YES | YES | ROAD 3,BOSHUNDARA,DHAKA,BANGLADESH | FEMALE | 01/JAN/19 |
| 1011 | EMPEROR NIRJHOR | 27/OCT/98 | 23 | YES | YES | YES | ROAD 9,KHILGAON,DHAKA,BANGLADESH | MALE | 23/SEP/17 |

3 rows returned in 0.01 seconds [CSV Export](#)

Language: en-au Activate Copyright © 1999,

2 COMPLEX SUB QUERY:

QUESTION:

SHOW ALL THE VISITOR INFORMATION WHO IS GOING TO VISIT FEMALE PRISONERS WHO IS NOT UNDER REMAND

```
SELECT * FROM VISITOR WHERE P_ID IN (SELECT P_ID FROM PRISONER WHERE P_ID IN (SELECT P_ID FROM CRIME WHERE REMAND = 'NO') AND GENDER = 'FEMALE');
```

Results

Explain

Describe

Saved SQL

History

| V_ID | V_NAME | RELATION | V_GENDER | V_PHONE_NUMBER | V_NID | P_ID | J_ID |
|------|-----------|-------------|----------|----------------|------------|------|------|
| 9001 | GOPAL VAR | GRANDFATHER | MALE | 1747474747 | 1919191919 | 1009 | 105 |
| 9002 | DORAEMON | FRIEND | MALE | 1757575757 | 2929292929 | 1015 | 104 |

2 rows returned in 0.02 seconds

CSV Export

QUESTION:

SHOW ALL THE PRISONER INFORMATION WHO ARE CHARGED FOR MURDER.

```
SELECT * FROM PRISONER WHERE P_ID IN (SELECT P_ID FROM CRIME WHERE CASE_ID = (SELECT CASE_ID FROM CASE WHERE CASE_TYPE = 'MURDER'));
```

Results

Explain

Describe

Saved SQL

History

| P_ID | P_NAME | DOB | P_AGE | FINGER_PRINT | FACE_RECOGNIZE | EYE_SCAN | ADDRESS | GENDER | ENTRY_DATE |
|------|------------|-----------|-------|--------------|----------------|----------|----------------------------------|--------|------------|
| 1002 | ARMAN ARIF | 26/JAN/99 | 22 | YES | YES | YES | ROAD 3,KHILGAON,DHAKA,BANGLADESH | MALE | 26/JAN/17 |

1 rows returned in 0.00 seconds

[CSV Export](#)

JOINING QUERIES:

EQUIJOIN QUERY:

QUESTION:

SHOW THE INFORMATION OF PRISONER ID, PRISONER NAME, DATE IN, CASE TYPE CRIME COUNT USING EQUIJOIN.

```
SELECT P.P_ID,P.P_NAME,C.DATE_IN,CASE.CASE_TYPE,C.CRIME_COUNT FROM PRISONER P,
CRIME C,CASE WHERE CASE.CASE_ID = C.CASE_ID AND C.P_ID = P.P_ID;
```

| Results | Explain | Describe | Saved SQL | History |
|---------|------------------|-----------|-----------------|-------------|
| P_ID | P_NAME | DATE_IN | CASE_TYPE | CRIME_COUNT |
| 1001 | NAHID HASSAN | 15/JAN/18 | RAPE | 3 |
| 1002 | ARMAN ARIF | 02/JAN/17 | MURDER | 6 |
| 1003 | ALI AHMED | 15/OCT/13 | HARASSMENT | 2 |
| 1004 | SAKIB NABI | 12/DEC/15 | KIDNAPPING | 6 |
| 1005 | SAMIO CHEMIYO | 20/OCT/16 | FRAUD | 1 |
| 1006 | USMAN GHANI | 15/DEC/11 | CYBER BULLYING | 7 |
| 1007 | HAFSA ISLAM | 17/DEC/18 | FRAUD | 2 |
| 1008 | SUMAIYA RAHMAN | 25/JAN/20 | THEFT | 9 |
| 1009 | NAIMA DEY | 21/FEB/18 | FRAUD | 3 |
| 1010 | MISHA SHOUDAGAR | 01/DEC/14 | EXTORTION | 7 |
| 1011 | EMPEROR NIRJHOR | 14/SEP/17 | INSIDER TRADING | 2 |
| 1012 | EMPEROR JAHANGIR | 01/SEP/19 | ARMED ROBBERY | 7 |
| 1013 | RAWNAK MAHIN | 19/OCT/10 | THEFT | 4 |
| 1014 | ARIFUL HAQUE | 12/FEB/07 | KIDNAPPING | 5 |
| 1015 | LABIBA SHAMIM | 20/JAN/03 | THEFT | 7 |

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

NON-EQUIJOIN QUERY:

QUESTION:

SHOW THE PUNISHMENT NAME OF ALL THE PRISONERS USING NON-EQUIJOIN

```
SELECT P.P_ID,P.P_NAME,PT.PMENT_NAME FROM PUNISHMENT PT, CRIME C, PRISONER P
WHERE C.CRIME_COUNT BETWEEN PT.PMENT_LOW AND PT.PMENT_HIGH AND P.P_ID =
C.P_ID;
```

Results Explain Describe Saved SQL History

| P_ID | P_NAME | PMENT_NAME |
|------|------------------|-----------------------|
| 1003 | ALI AHMED | 2 YEARS IMPRISONMENT |
| 1005 | SAMIO CHEMIYO | 2 YEARS IMPRISONMENT |
| 1007 | HAUSA ISLAM | 2 YEARS IMPRISONMENT |
| 1011 | EMPEROR NIRJHOR | 2 YEARS IMPRISONMENT |
| 1001 | NAHID HASSAN | 7 YEARS IMPRISONMENT |
| 1009 | NAIMA DEY | 7 YEARS IMPRISONMENT |
| 1013 | RAWNAK MAHIN | 7 YEARS IMPRISONMENT |
| 1002 | ARMAN ARIF | LIFETIME IMPRISONMENT |
| 1004 | SAKIB NABI | LIFETIME IMPRISONMENT |
| 1006 | USMAN GHANI | LIFETIME IMPRISONMENT |
| 1010 | MISHA SHOUDAGAR | LIFETIME IMPRISONMENT |
| 1012 | EMPEROR JAHANGIR | LIFETIME IMPRISONMENT |
| 1014 | ARIFUL HAQUE | LIFETIME IMPRISONMENT |
| 1015 | LABIBA SHAMIM | LIFETIME IMPRISONMENT |
| 1008 | SUMAIYA RAHMAN | HANG TILL DEATH |

15 rows returned in 0.00 seconds

[CSV Export](#)

LEFT OUTER JOIN QUERY:

QUESTION:

SHOW ALL THE CELL AND PRISONER FROM CELL USING LEFT OUTER JOIN

```
SELECT C.CELL_NUMBER,P.P_NAME FROM CELL C LEFT OUTER JOIN PRISONER P ON (C.P_ID = P.P_ID) ORDER BY CELL_NUMBER DESC;
```

Results Explain Describe Saved SQL History

| CELL_NUMBER | P_NAME |
|-------------|------------------|
| 320 | - |
| 319 | - |
| 318 | - |
| 317 | - |
| 316 | - |
| 315 | LABIBA SHAMIM |
| 314 | ARIFUL HAQUE |
| 313 | RAWNAK MAHIN |
| 312 | EMPEROR JAHANGIR |
| 311 | EMPEROR NIRJHOR |
| 310 | MISHA SHOUDAGAR |
| 309 | NAIMA DEY |
| 308 | SUMAIYA RAHMAN |
| 307 | HAFSA ISLAM |
| 306 | USMAN GHANI |
| 305 | SAMIO CHEMIYO |
| 304 | SAKIB NABI |
| 303 | ALI AHMED |
| 302 | ARMAN ARIF |
| 301 | NAHID HASSAN |

20 rows returned in 0.00 seconds

[CSV Export](#)

FULL OUTER JOIN QUERY:

QUESTION:

SHOW ALL INFORMATION OF PRISONER ID ,PRISONER NAME AND CELL NUMBER FROM PRISONER AND CELL.

```
SELECT P.P_ID,P.P_NAME,C.CELL_NUMBER FROM PRISONER P FULL OUTER JOIN CELL C  
ON(P.P_ID = C.P_ID);
```

| Results | Explain | Describe | Saved SQL | History |
|---------|------------------|-------------|-----------|---------|
| P_ID | P_NAME | CELL_NUMBER | | |
| 1001 | NAHID HASSAN | 301 | | |
| 1002 | ARMAN ARIF | 302 | | |
| 1003 | ALI AHMED | 303 | | |
| 1004 | SAKIB NABI | 304 | | |
| 1005 | SAMIO CHEMIYO | 305 | | |
| 1006 | USMAN GHANI | 306 | | |
| 1007 | HAFSA ISLAM | 307 | | |
| 1008 | SUMAIYA RAHMAN | 308 | | |
| 1009 | NAIMA DEY | 309 | | |
| 1010 | MISHA SHOUDAGAR | 310 | | |
| 1011 | EMPEROR NIRJHOR | 311 | | |
| 1012 | EMPEROR JAHANGIR | 312 | | |
| 1013 | RAWNAK MAHIN | 313 | | |
| 1014 | ARIFUL HAQUE | 314 | | |
| 1015 | LABIBA SHAMIM | 315 | | |
| 1016 | - | - | | |
| - | - | 316 | | |
| - | - | 317 | | |
| - | - | 318 | | |
| - | - | 319 | | |
| - | - | 320 | | |

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

SELF JOIN QUERY:

QUESTION:

SHOW PRISONER ID AND CRIME COUNT WHO HAS SAME NUMBER OF CRIME.

```
SELECT A.P_ID,A.CRIME_COUNT,B.P_ID,B.CRIME_COUNT FROM CRIME A,CRIME B WHERE  
A.P_ID <> B.P_ID AND A.CRIME_COUNT = B.CRIME_COUNT AND A.REMAND = B.REMAND;
```

Results Explain Describe Saved SQL History

| P_ID | CRIME_COUNT | P_ID | CRIME_COUNT |
|------|-------------|------|-------------|
| 1004 | 6 | 1002 | 6 |
| 1002 | 6 | 1004 | 6 |
| 1015 | 7 | 1006 | 7 |
| 1011 | 2 | 1007 | 2 |
| 1012 | 7 | 1010 | 7 |
| 1007 | 2 | 1011 | 2 |
| 1010 | 7 | 1012 | 7 |
| 1006 | 7 | 1015 | 7 |

8 rows returned in 0.00 seconds

[CSV Export](#)

VIEW:

QUESTION:

SHOW PRISONER ID , PRISONER NAME , DATE IN, CASE TYPE , CRIME COUNT BY CREATING A VIEW.

```
CREATE OR REPLACE VIEW PRISONERVIEW (PRISONER_ID, PRISONER_NAME, DATE_IN,
CASE_TYPE,CRIME_COUNT) AS SELECT
P.P_ID,P.P_NAME,C.DATE_IN,CASE.CASE_TYPE,C.CRIME_COUNT FROM PRISONER P, CRIME
C,CASE WHERE CASE.CASE_ID = C.CASE_ID AND C.P_ID = P.P_ID;
```

```
SELECT * FROM PRISONERVIEW;
```

| Results | Explain | Describe | Saved SQL | History |
|---|------------------|-----------|-----------------|---------|
| PRISONER_ID PRISONER_NAME DATE_IN CASE_TYPE CRIME_COUNT | | | | |
| 1001 | NAHID HASSAN | 15/JAN/18 | RAPE | 3 |
| 1002 | ARMAN ARIF | 02/JAN/17 | MURDER | 6 |
| 1003 | ALI AHMED | 15/OCT/13 | HARASSMENT | 2 |
| 1004 | SAKIB NABI | 12/DEC/15 | KIDNAPPING | 6 |
| 1005 | SAMIO CHEMIYO | 20/OCT/16 | FRAUD | 1 |
| 1006 | USMAN GHANI | 15/DEC/11 | CYBER BULLYING | 7 |
| 1007 | HAFSA ISLAM | 17/DEC/18 | FRAUD | 2 |
| 1008 | SUMAIYA RAHMAN | 25/JAN/20 | THEFT | 9 |
| 1009 | NAIMA DEY | 21/FEB/18 | FRAUD | 3 |
| 1010 | MISHA SHOUDAGAR | 01/DEC/14 | EXTORTION | 7 |
| 1011 | EMPEROR NIRJHOR | 14/SEP/17 | INSIDER TRADING | 2 |
| 1012 | EMPEROR JAHANGIR | 01/SEP/19 | ARMED ROBBERY | 7 |
| 1013 | RAWNAK MAHIN | 19/OCT/10 | THEFT | 4 |
| 1014 | ARIFUL HAQUE | 12/FEB/07 | KIDNAPPING | 5 |
| 1015 | LABIBA SHAMIM | 20/JAN/03 | THEFT | 7 |

15 rows returned in 0.01 seconds [CSV Export](#)

Application Express 2.1.0.00.39

SEQUENCE:

CREATE SEQUENCE CELLSEQUENCE

MINVALUE 321

MAXVALUE 399

START WITH 321

NOCACHE

NOCYCLE

INCREMENT BY 1;

INSERT INTO CELL VALUES(CELLSEQUENCE.NEXTVAL,'TNT',1,NULL);

INSERT INTO CELL VALUES(CELLSEQUENCE.NEXTVAL,'ATOM',1,NULL);

INSERT INTO CELL VALUES(CELLSEQUENCE.NEXTVAL,'GRAMO',1,NULL);

INSERT INTO CELL VALUES(CELLSEQUENCE.NEXTVAL,'KILLJOY',1,NULL);

INSERT INTO CELL VALUES(CELLSEQUENCE.NEXTVAL,'BRIMMER',1,NULL);

INSERT INTO CELL VALUES(CELLSEQUENCE.NEXTVAL,'STONNER',1,NULL);

SELECT * FROM CELL;

| CELL_NUMBER | CELL_NAME | CAPACITY | P_ID |
|-------------|-----------|----------|------|
| 301 | GG | 1 | 1001 |
| 302 | WP | 1 | 1002 |
| 303 | EZ | 1 | 1003 |
| 304 | ASCP | 1 | 1004 |
| 305 | GM | 1 | 1005 |
| 306 | GGWP | 1 | 1006 |
| 307 | GGEZ | 1 | 1007 |
| 308 | REYNA | 1 | 1008 |
| 309 | SOVA | 1 | 1009 |
| 310 | BRIM | 1 | 1010 |
| 311 | SAGE | 1 | 1011 |
| 312 | PHOENIX | 1 | 1012 |
| 313 | ASTRA | 1 | 1013 |
| 314 | CHAMBER | 1 | 1014 |
| 315 | SKYE | 1 | 1015 |
| 316 | BREACH | 1 | - |
| 317 | RAZE | 1 | - |
| 318 | OMEN | 1 | - |
| 319 | YORU | 1 | - |
| 320 | KJ | 1 | - |
| 321 | TNT | 1 | - |
| 322 | ATOM | 1 | - |
| 323 | GRAMO | 1 | - |
| 324 | KILLJOY | 1 | - |
| 325 | BRIMMER | 1 | - |
| 326 | STONNER | 1 | - |

26 rows returned in 0.01 seconds

[CSV Export](#)

CONCLUSION:

This project is just a framework with many more potential attachments to it. As this an introductory course of database, our skill level is not good enough to build a more accurate system to manage a huge facility like prison. We think when we will gain more knowledge about advance database, we can apply more tables, security and more complexity added to the system. Suppose we want to add more different kind of sections in the prison with more titled officers, constables, and so on. We can also add solitary unit, isolation unit, medical ward, doctor's office, entertainment room and more. This prison management system is a unique and diverse system which can be upgraded in many ways and by making it more complex and diverse. In future, we can develop this project with our efficiency.